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OM protein - protein search, using sw model

Run on: February 18, 2006, 03:47:20 ; Search time 169 Seconds
(without alignments)
1888.885 Million cell updates/sec

Title: US-09-445-614B-2
Perfect score: 4004
Sequence: 1 MTSFSSPVFRLETLGGQSE.....EEDGASENYVPVQLQSN 764

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4004	100.0	764	3	US-09-828-466-4
2	4004	100.0	764	3	US-09-978-303-36
3	4004	100.0	764	4	US-10-000-823-6
4	4004	100.0	764	4	US-10-342-844-68
5	4004	100.0	764	4	US-10-757-262-26
6	4004	100.0	764	5	US-10-473-127-761
7	4004	100.0	764	5	US-10-473-127-762
8	4004	100.0	764	5	US-10-473-127-765
9	4004	100.0	764	5	US-10-473-127-770
10	4004	100.0	764	5	US-10-473-127-772
11	4004	100.0	764	5	US-10-473-127-776
12	4004	100.0	764	5	US-10-473-127-779
13	4004	100.0	764	5	US-10-915-017-36
14	4004	100.0	764	6	US-11-013-090-5
15	3998	99.9	764	4	US-10-168-651-3
16	3998	99.9	764	5	US-10-473-127-766
17	3998	99.9	764	5	US-10-473-127-767
18	3988.5	99.6	763	5	US-10-473-127-764
19	3988.5	99.6	763	5	US-10-473-127-773
20	3988.5	99.6	763	5	US-10-473-127-774
21	3988.5	99.6	889	4	US-10-137-316-2
22	3945	98.5	764	3	US-09-828-466-5
23	3945	98.5	764	4	US-10-342-844-70
24	3945	98.5	764	5	US-10-473-127-763
25	3945	98.5	764	5	US-10-473-127-778
26	3945	98.5	764	5	US-10-473-127-780
27	3945	98.5	764	5	US-10-782-695-10

28	3939	98.4	764	5	US-10-473-127-775	Sequence 775, Appl
29	3926	98.1	760	3	US-09-764-367A-9	Sequence 9, Appl
30	3375	84.3	644	4	US-10-342-844-44	Sequence 44, Appl
31	3258	81.4	630	5	US-10-473-127-777	Sequence 777, Appl
32	3258	81.4	630	6	US-11-013-090-20	Sequence 20, Appl
33	3159	78.9	756	4	US-10-342-844-86	Sequence 86, Appl
34	3158	78.9	756	4	US-10-342-844-52	Sequence 52, Appl
35	3051.5	76.2	761	3	US-09-978-303-4	Sequence 4, Appl
36	3051.5	76.2	761	4	US-10-342-844-46	Sequence 46, Appl
37	3051.5	76.2	761	5	US-10-915-017-4	Sequence 4, Appl
38	3041.5	76.0	761	4	US-10-342-844-34	Sequence 34, Appl
39	3036.5	75.8	727	3	US-09-978-303-23	Sequence 23, Appl
40	3036.5	75.8	727	5	US-10-473-127-769	Sequence 769, Appl
41	3036.5	75.8	727	5	US-10-473-127-771	Sequence 771, Appl
42	3036.5	75.8	727	5	US-10-915-017-23	Sequence 23, Appl
43	3028.5	75.6	762	4	US-10-342-844-98	Sequence 98, Appl
44	2789	69.7	665	4	US-10-027-828-18	Sequence 18, Appl
45	2669	66.7	511	4	US-10-284-237-2806	Sequence 2806, Ap

ALIGNMENTS

RESULT 1

US-09-828-466-4
; Sequence 4, Application US/09828466
; Patent No. US20020035056A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: WNI-125CP
; CURRENT APPLICATION NUMBER: US/09/828,466
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 09/544,797
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-828-466-4

Query Match		100.0%	Score 4004;	DB 3;	Length 764;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 764;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MTSPSSSPVFRLETLGGQSEADRGKLDGSGLP	PPMESQFGEDRKFAPIRVNLNY	60	
Db	1	MTSPSSSPVFRLETLGGQSEADRGKLDGSGLP	PPMESQFGEDRKFAPIRVNLNY	60	
Qy	61	RKGTASQDPNPFDRDLFNAVSRGVPEDLAGL	PEYLSKTSKYLTDSEYEGSTGKTCL	120	
Db	61	RKGTASQDPNPFDRDLFNAVSRGVPEDLAGL	PEYLSKTSKYLTDSEYEGSTGKTCL	120	
Qy	121	MKAVLNKQGNACILPLIQIDRDSGNPQPLVNA	QCTDDYVRGSHALHIAIEKESLQCVK	180	
Db	121	MKAVLNKQGNACILPLIQIDRDSGNPQPLVNA	QCTDDYVRGSHALHIAIEKESLQCVK	180	
Qy	181	LLVENGANVHARACGRFFQGGQCTCFYFGE	LPISLAACQWDVSVYLLENPHOPASIQA	240	
Db	181	LLVENGANVHARACGRFFQGGQCTCFYFGE	LPISLAACQWDVSVYLLENPHOPASIQA	240	
Qy	241	TDSQGNVTLHALVMSDNSAENALVTSYMDGL	LQAGARLCPTVQLBEDIINQLDPLKL	300	
Db	241	TDSQGNVTLHALVMSDNSAENALVTSYMDGL	LQAGARLCPTVQLBEDIINQLDPLKL	300	
Qy	301	AAKEGKIEIHRHILQREFSGLSHLRKFTWCY	GPVRVSLYDLASVDSCEENSVEIATP	360	
Db	301	AAKEGKIEIHRHILQREFSGLSHLRKFTWCY	GPVRVSLYDLASVDSCEENSVEIATP	360	
Qy	361	HCKSPHRHVMVLEPLNKLIAQAKWDLII	PKFFLNFLNLIYMFIFTTAVAVHQTLLKQAA	420	

Db 361 HCKSPHRHMVLEPLNKLQAKWDLIIKFFLFLCNLIYMFIFTAVAYHQPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWYFMRHHVFIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWYFMRHHVFIWISFIDSYPEILFLFOALL 480
QY 481 TVVSQVLCFLAIEWYLPVLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
Db 481 TVVSQVLCFLAIEWYLPVLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
QY 541 IYLVFLGFAVALVSLSQEAWRPEATGPNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLGFAVALVSLSQEAWRPEATGPNATESVQPMQEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYIILLNMALMSETVNSVATDSWSIW 660
Db 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYIILLNMALMSETVNSVATDSWSIW 660
QY 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
QY 721 LCEDPGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 721 LCEDPGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764

RESULT 2

US-09-978-303-36
; Sequence 36, Application US/09978303
; Publication No. US20030049728A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-303-36

Query Match 100.0%; Score 4004; DB 3; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSFSSSPVRLTLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
Db 1 MTSFSSSPVRLTLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKTGTASQDPNRPDRDLRFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120
Db 61 RKTGTASQDPNRPDRDLRFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120
QY 121 MKAVLNKDGWNACILPLLQIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKRSQCQVK 180
Db 121 MKAVLNKDGWNACILPLLQIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKRSQCQVK 180
QY 181 LIVENGANVHARACGRFFQKGGQCTCFYFGBLPLSLAACTKQMDVVSYLLENPHOPASLOA 240

Db 181 LIVENGANVHARACGRFFQKGGQCTCFYFGBLPLSLAACTKQMDVVSYLLENPHOPASLOA 240
QY 241 TDSQGNVTVLHVMISDNSAENIALVTSYDGLLOAGARLCTPVQLEDIRNLQDLTPKL 300
Db 241 TDSQGNVTVLHVMISDNSAENIALVTSYDGLLOAGARLCTPVQLEDIRNLQDLTPKL 300
QY 301 AAKEGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
Db 301 AAKEGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
QY 361 HCKSPHRHMVLEPLNKLQAKWDLIIKFFLFLCNLIYMFIFTAVAYHQPTLKKQAA 420
Db 361 HCKSPHRHMVLEPLNKLQAKWDLIIKFFLFLCNLIYMFIFTAVAYHQPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWYFMRHHVFIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWYFMRHHVFIWISFIDSYPEILFLFOALL 480
QY 481 TVVSQVLCFLAIEWYLPVLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
Db 481 TVVSQVLCFLAIEWYLPVLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
QY 541 IYLVFLGFAVALVSLSQEAWRPEATGPNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLGFAVALVSLSQEAWRPEATGPNATESVQPMQEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYIILLNMALMSETVNSVATDSWSIW 660
Db 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYIILLNMALMSETVNSVATDSWSIW 660
QY 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
QY 721 LCEDPGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 721 LCEDPGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764

RESULT 3

US-10-000-823-6
; Sequence 6, Application US/10000823
; Publication No. US20030027164A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN NUCLEIC ACID MOLECULES AND POLYPEPTIDES ENCODING A N
; FILE REFERENCE: D0109NP
; CURRENT APPLICATION NUMBER: US/10/000,823
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/250,587
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-000-823-6

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSFSSSPVRLTLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
Db 1 MTSFSSSPVRLTLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKTGTASQDPNRPDRDLRFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120
Db 61 RKTGTASQDPNRPDRDLRFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120

121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAOCTDDYVRGSHALHIAIEKRSLOQVK 180
121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAOCTDDYVRGSHALHIAIEKRSLOQVK 180
181 LLVENGANVHARACGRFFQKGGTCFYFGEPLSLAACTKQWDVVSYLENPHOPASLOA 240
181 LLVENGANVHARACGRFFQKGGTCFYFGEPLSLAACTKQWDVVSYLENPHOPASLOA 240
241 TDSQNTVLHALVMSIDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
241 TDSQNTVLHALVMSIDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
301 AAKEGKIIFRHILOREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
301 AAKEGKIIFRHILOREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
361 HCKSPHRRMWWLEPLNKLQAKWDLLIPKFFLPLNCLNLIYMFIFTAVAYHQTLLKQAA 420
361 HCKSPHRRMWWLEPLNKLQAKWDLLIPKFFLPLNCLNLIYMFIFTAVAYHQTLLKQAA 420
421 PHLKAEGVNSMLLTGHILILGGLYLLVGLWYFRRHVFVIFWISFIDSYPFELFLQALL 480
421 PHLKAEGVNSMLLTGHILILGGLYLLVGLWYFRRHVFVIFWISFIDSYPFELFLQALL 480
481 TVVSQVLCFLAEIWLPLLVLSALVGLWNLIIYTRGFQHTGIYSVMQKVLRLDLRFL 540
481 TVVSQVLCFLAEIWLPLLVLSALVGLWNLIIYTRGFQHTGIYSVMQKVLRLDLRFL 540
541 IYLVFLFGFAVALVSLQSEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
541 IYLVFLFGFAVALVSLQSEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
601 FKFTIGMGEALFQELHFRGMVLLLLAYVLLTYLLNMLIALMSETVNSVATDSWSIW 660
601 FKFTIGMGEALFQELHFRGMVLLLLAYVLLTYLLNMLIALMSETVNSVATDSWSIW 660
661 KLOKAISVLEMEGYYWCKKQKORAGVMTVGTGPDGSPDERWCPRVEVNWASWEQTLPT 720
661 KLOKAISVLEMEGYYWCKKQKORAGVMTVGTGPDGSPDERWCPRVEVNWASWEQTLPT 720
721 LCEDPGAGVPRTLNPLVSLPPKDEDEGASEENYVVPVQLLQSN 764
721 LCEDPGAGVPRTLNPLVSLPPKDEDEGASEENYVVPVQLLQSN 764

RESULT 4

US-10-342-844-68
; Sequence 68, Application US/10342844
; Publication No. US20040009537A1
; GENERAL INFORMATION:
; APPLICANT: Roos, Jack
; APPLICANT: Stauderman, Kenneth
; APPLICANT: Velicelebi, G'n_1
; TITLE OF INVENTION: METHODS OF MODULATING AND IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT MODULATE INTRACELLULAR CALCIUM
; FILE REFERENCE: 37481-3307
; CURRENT FILING DATE: 2003-01-13
; PRIOR FILING DATE: 2003-01-13
; PRIOR FILING DATE: 2002-01-11
; PRIOR FILING DATE: 2002-01-11
; PRIOR FILING DATE: 2002-08-02
; PRIOR FILING DATE: 2002-08-02
; PRIOR FILING DATE: 2002-08-02
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Genbank AAD26363
; DATABASE ENTRY DATE: 1999-04-07

US-10-342-844-68

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSFSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKPAQIRVNLNY 60
DB 1 MTSFSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKPAQIRVNLNY 60
QY 61 RKGTCASQPDNRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTCASQPDNRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAOCTDDYVRGSHALHIAIEKRSLOQVK 180
DB 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAOCTDDYVRGSHALHIAIEKRSLOQVK 180
QY 181 LLVENGANVHARACGRFFQKGGTCFYFGEPLSLAACTKQWDVVSYLENPHOPASLOA 240
DB 181 LLVENGANVHARACGRFFQKGGTCFYFGEPLSLAACTKQWDVVSYLENPHOPASLOA 240
QY 241 TDSQNTVLHALVMSIDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
DB 241 TDSQNTVLHALVMSIDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
QY 301 AAKEGKIIFRHILOREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
DB 301 AAKEGKIIFRHILOREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
QY 361 HCKSPHRRMWWLEPLNKLQAKWDLLIPKFFLPLNCLNLIYMFIFTAVAYHQTLLKQAA 420
DB 361 HCKSPHRRMWWLEPLNKLQAKWDLLIPKFFLPLNCLNLIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEGVNSMLLTGHILILGGLYLLVGLWYFRRHVFVIFWISFIDSYPFELFLQALL 480
DB 421 PHLKAEGVNSMLLTGHILILGGLYLLVGLWYFRRHVFVIFWISFIDSYPFELFLQALL 480
QY 481 TVVSQVLCFLAEIWLPLLVLSALVGLWNLIIYTRGFQHTGIYSVMQKVLRLDLRFL 540
DB 481 TVVSQVLCFLAEIWLPLLVLSALVGLWNLIIYTRGFQHTGIYSVMQKVLRLDLRFL 540
QY 541 IYLVFLFGFAVALVSLQSEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLQSEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMGEALFQELHFRGMVLLLLAYVLLTYLLNMLIALMSETVNSVATDSWSIW 660
DB 601 FKFTIGMGEALFQELHFRGMVLLLLAYVLLTYLLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKAISVLEMEGYYWCKKQKORAGVMTVGTGPDGSPDERWCPRVEVNWASWEQTLPT 720
DB 661 KLOKAISVLEMEGYYWCKKQKORAGVMTVGTGPDGSPDERWCPRVEVNWASWEQTLPT 720
QY 721 LCEDPGAGVPRTLNPLVSLPPKDEDEGASEENYVVPVQLLQSN 764
DB 721 LCEDPGAGVPRTLNPLVSLPPKDEDEGASEENYVVPVQLLQSN 764

RESULT 5

US-10-757-262-26
; Sequence 26, Application US/10757262
; Publication No. US20040197825A1
; GENERAL INFORMATION:
; APPLICANT: Karicheti, Venkateswarlu
; APPLICANT: Silos-Santiago, Inmaculada
; APPLICANT: Eliasof, Scott D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 4390, 54181, 211, 5687, 884,
; TITLE OF INVENTION: 1405, 636, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
; TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 51164,
; TITLE OF INVENTION: 53010, 16852, 1587, 2207, 22245, 2387, 52908, 69112, 14990,
; TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 8675,

; TITLE OF INVENTION: 32720, 4809, 14303, 16816, 17827, 32620, 577, 619, 1423.
; TITLE OF INVENTION: 2158, 8263, 15402, 16209, 16386, 21165, 30911, 41897, 1643,
; TITLE OF INVENTION: 2543, 9626, 13231, 32409, 84260, 2882, 8203, 32678 OR
; FILE REFERENCE: MPI03-007PIRNOWNIM
; CURRENT APPLICATION NUMBER: US/10/757,262
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,318
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: US 60/444,783
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/457,901
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/468,775
; PRIOR FILING DATE: 2003-05-08
; PRIOR APPLICATION NUMBER: US 60/471,614
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 60/478,742
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: US 60/488,529
; PRIOR FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/491,156
; PRIOR FILING DATE: 2003-07-30
; PRIOR APPLICATION NUMBER: US 60/499,594
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US 60/506,332
; PRIOR FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 136
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-757-262-26

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
DB 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
DB 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
QY 181 LIVENGANVHARACGRFFQGGTCTFYFGBELPLSLAACTKQWDVSVLLENPHQASLOA 240
DB 181 LIVENGANVHARACGRFFQGGTCTFYFGBELPLSLAACTKQWDVSVLLENPHQASLOA 240
QY 241 TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
DB 241 TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
QY 301 AAKEGKIEIPRHILQREFSGLSHLSKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
DB 301 AAKEGKIEIPRHILQREFSGLSHLSKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
QY 361 HCKSPHRRMVLEPLNKLQAKWDLIPKPFELNCLNLYMIFITAVAHQPTLKKQAA 420
DB 361 HCKSPHRRMVLEPLNKLQAKWDLIPKPFELNCLNLYMIFITAVAHQPTLKKQAA 420
QY 421 PHLKAEGVNSMLLTGHTLILGGIYLLVQGLWYFRRHVPFIWISFIDSYPEILFLQALL 480
DB 421 PHLKAEGVNSMLLTGHTLILGGIYLLVQGLWYFRRHVPFIWISFIDSYPEILFLQALL 480
QY 481 TVVSQVLCFLAIEWYLPLLVSALVGLWNLNLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540

DB 481 TVVSQVLCFLAIEWYLPLLVSALVGLWNLNLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
QY 541 IYLVFLFGFAVALVSLSQAWRPEAPTGNPNATESVQPMQDEBEGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLSQAWRPEAPTGNPNATESVQPMQDEBEGNGAQYRGILEASLEL 600
QY 601 FKFTTGMGELAFQEQQLHFRGMVLLLLAYVILTYILLNMLTALMSETVNSVATDSWSIW 660
DB 601 FKFTTGMGELAFQEQQLHFRGMVLLLLAYVILTYILLNMLTALMSETVNSVATDSWSIW 660
QY 661 KLOKALSVLEMENGYWCRKQKORAGVMLTVGTPDGSPPDERWCFRVEEVNNAWSEOTLPT 720
DB 661 KLOKALSVLEMENGYWCRKQKORAGVMLTVGTPDGSPPDERWCFRVEEVNNAWSEOTLPT 720
QY 721 LCEDPSGAGVPRTLENPVLASPPKEDGCGASEENYVPVQLQSN 764
DB 721 LCEDPSGAGVPRTLENPVLASPPKEDGCGASEENYVPVQLQSN 764

RESULT 6

US-10-473-127-761
; Sequence 761, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 761
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-473-127-761

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
DB 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
DB 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
QY 181 LIVENGANVHARACGRFFQGGTCTFYFGBELPLSLAACTKQWDVSVLLENPHQASLOA 240
DB 181 LIVENGANVHARACGRFFQGGTCTFYFGBELPLSLAACTKQWDVSVLLENPHQASLOA 240
QY 241 TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
DB 241 TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300

QY 301 AAEKGKIEIFRHILOREBSGLSHLSRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIAF 360
DB 301 AAEKGKIEIFRHILOREBSGLSHLSRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIAF 360
QY 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFFLFLCNLIYMFIFTAVAYHPTLKKQAA 420
DB 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFFLFLCNLIYMFIFTAVAYHPTLKKQAA 420
QY 421 PHLKAEGVNSMLLTGHIILLLGGIYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 480
DB 421 PHLKAEGVNSMLLTGHIILLLGGIYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 480
QY 481 TVVSQVLCFLAEIEMWYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 540
DB 481 TVVSQVLCFLAEIEMWYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 540
QY 541 IYLVFLFGFAVALVSLQEAWRPEAPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLQEAWRPEAPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
QY 661 KLOKAISVLEMEGYWMCCKKQKQAGVMTVGTGPDGSPDERCFCRVEEVNWSWEQTLPT 720
DB 661 KLOKAISVLEMEGYWMCCKKQKQAGVMTVGTGPDGSPDERCFCRVEEVNWSWEQTLPT 720
QY 721 LCEDPSGAGVPRILENPNVLPASPPKEDGASEENYVVPQLLQSN 764
DB 721 LCEDPSGAGVPRILENPNVLPASPPKEDGASEENYVVPQLLQSN 764

RESULT 7

US-10-473-127-762
; Sequence 762, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; PRIOR FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 762
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-762

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MTPSSSPVFRLETLDCQSDGSEADRGKLDGSLPPMESQFQEDRKFAPIRVNLNY 60
DB 1 MTPSSSPVFRLETLDCQSDGSEADRGKLDGSLPPMESQFQEDRKFAPIRVNLNY 60
QY 61 RKGTSQPDNRRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120

DB 61 RKGTSQPDNRRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGTCL 120
QY 121 MKAVLNKDGYNACILPLQIQDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKSLQCVK 180
DB 121 MKAVLNKDGYNACILPLQIQDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKSLQCVK 180
QY 181 LLVENGANVHARACGRFFQKGGTCFFYFGEPLSLAECTQKQWVVSYLLENPHOPASLOA 240
DB 181 LLVENGANVHARACGRFFQKGGTCFFYFGEPLSLAECTQKQWVVSYLLENPHOPASLOA 240
QY 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLOAGARLCTPVOLEDIRNLQDLTPLK 300
DB 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLOAGARLCTPVOLEDIRNLQDLTPLK 300
QY 301 AAEKGKIEIFRHILOREBSGLSHLSRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIAF 360
DB 301 AAEKGKIEIFRHILOREBSGLSHLSRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIAF 360
QY 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFFLFLCNLIYMFIFTAVAYHPTLKKQAA 420
DB 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFFLFLCNLIYMFIFTAVAYHPTLKKQAA 420
QY 421 PHLKAEGVNSMLLTGHIILLLGGIYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 480
DB 421 PHLKAEGVNSMLLTGHIILLLGGIYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 480
QY 481 TVVSQVLCFLAEIEMWYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 540
DB 481 TVVSQVLCFLAEIEMWYLLVQWYFWRRHVFIIWISFIDSFFILFLQALL 540
QY 541 IYLVFLFGFAVALVSLQEAWRPEAPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLQEAWRPEAPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
QY 661 KLOKAISVLEMEGYWMCCKKQKQAGVMTVGTGPDGSPDERCFCRVEEVNWSWEQTLPT 720
DB 661 KLOKAISVLEMEGYWMCCKKQKQAGVMTVGTGPDGSPDERCFCRVEEVNWSWEQTLPT 720
QY 721 LCEDPSGAGVPRILENPNVLPASPPKEDGASEENYVVPQLLQSN 764
DB 721 LCEDPSGAGVPRILENPNVLPASPPKEDGASEENYVVPQLLQSN 764

RESULT 8

US-10-473-127-765
; Sequence 765, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 765
; LENGTH: 764

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-765

Query Match      100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPOIRVNLNY 60
Db 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPOIRVNLNY 60
Qy 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Db 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVNLKDGVNACILPLLIQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSQCCKV 180
Db 121 MKAVNLKDGVNACILPLLIQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSQCCKV 180
Qy 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Qy 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTFLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTFLKL 300
Qy 301 AAKEGKIEIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
Db 301 AAKEGKIEIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
Qy 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Db 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Qy 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRHVFVIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRHVFVIWISFIDSYPEILFLFOALL 480
Qy 481 TVVSOVLCLFAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLARFL 540
Db 481 TVVSOVLCLFAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLARFL 540
Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAFTGPNATESVQPMQEQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAFTGPNATESVQPMQEQDEGNGAQRGILEASLEL 600
Qy 601 FKFTIGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWCRKKQAGVMLTVGTPDGS PDERWC FRVEEWNWASWEOTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKKQAGVMLTVGTPDGS PDERWC FRVEEWNWASWEOTLPT 720
Qy 721 LCDPDSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLQSN 764
Db 721 LCDPDSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLQSN 764
```

RESULT 9

```
US-10-473-127-770
; Sequence 770, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026WO1
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
```

```
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 770
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-770
```

```
Query Match      100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPOIRVNLNY 60
Db 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPOIRVNLNY 60
Qy 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Db 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVNLKDGVNACILPLLIQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSQCCKV 180
Db 121 MKAVNLKDGVNACILPLLIQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSQCCKV 180
Qy 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Qy 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTFLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTFLKL 300
Qy 301 AAKEGKIEIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
Db 301 AAKEGKIEIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLRIIAF 360
Qy 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Db 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Qy 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRHVFVIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRHVFVIWISFIDSYPEILFLFOALL 480
Qy 481 TVVSOVLCLFAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLARFL 540
Db 481 TVVSOVLCLFAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLARFL 540
Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAFTGPNATESVQPMQEQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAFTGPNATESVQPMQEQDEGNGAQRGILEASLEL 600
Qy 601 FKFTIGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWCRKKQAGVMLTVGTPDGS PDERWC FRVEEWNWASWEOTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKKQAGVMLTVGTPDGS PDERWC FRVEEWNWASWEOTLPT 720
Qy 721 LCDPDSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLQSN 764
Db 721 LCDPDSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLQSN 764
```

RESULT 10

US-10-473-127-772
; Sequence 772, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 772
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-772

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTPSSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKFAPIRVNLNY 60
Db 1 MTPSSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKFAPIRVNLNY 60

Qy 61 RKTGASQDPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQDPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120

Qy 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKESLQCVK 180
Db 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKESLQCVK 180

Qy 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQPASLOA 240

Qy 241 TDSQNTVLHVMISDNSAENIALVTSMYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQNTVLHVMISDNSAENIALVTSMYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300

Qy 301 AAKGKTEIPRHILQREFSGLSHLRKFTEWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Db 301 AAKGKTEIPRHILQREFSGLSHLRKFTEWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360

Qy 541 IYLVFGLFAVALVSLSQEAWRPEAPTGNATESVQPMEGQEDGNGAQYRGILEASLEL 600

Db 541 IYLVFGLFAVALVSLSQEAWRPEAPTGNATESVQPMEGQEDGNGAQYRGILEASLEL 600
Qy 601 FKFTIGMCELAFQBLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMCELAFQBLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAIISVLEMENGYWCRKKORAGVMLTVGTKDGSDEPRVCEVNNASWEQTLP 720
Db 661 KLOKAIISVLEMENGYWCRKKORAGVMLTVGTKDGSDEPRVCEVNNASWEQTLP 720
Qy 721 LCEDPGAGVPTLLENPVLASPPKEDGASEENYVPVQLLQSN 764
Db 721 LCEDPGAGVPTLLENPVLASPPKEDGASEENYVPVQLLQSN 764

RESULT 11

US-10-473-127-776
; Sequence 776, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 776
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-776

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTPSSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKFAPIRVNLNY 60
Db 1 MTPSSSPVFRLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKFAPIRVNLNY 60

Qy 61 RKTGASQDPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQDPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120

Qy 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKESLQCVK 180
Db 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRHSALHIAIEKESLQCVK 180

Qy 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQPASLOA 240

Qy 241 TDSQNTVLHVMISDNSAENIALVTSMYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQNTVLHVMISDNSAENIALVTSMYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300

Qy 301 AAKGKTEIPRHILQREFSGLSHLRKFTEWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Db 301 AAKGKTEIPRHILQREFSGLSHLRKFTEWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360

361 HCKSPHHRMVMVLEPLNKLQAKWDLIPKFFLNFCLNIYMFIFTAVAYHOPTLKQAA 420
361 HCKSPHHRMVMVLEPLNKLQAKWDLIPKFFLNFCLNIYMFIFTAVAYHOPTLKQAA 420
421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
481 TVVSQVCLFALATEWYLPILVLSALVGLWNLVYTRGFQHTGIYSVMIOKVILLRDLRFL 540
481 TVVSQVCLFALATEWYLPILVLSALVGLWNLVYTRGFQHTGIYSVMIOKVILLRDLRFL 540
541 IYLVFLFGFAVALVLSQEAWEPEPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
541 IYLVFLFGFAVALVLSQEAWEPEPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
601 FKFTIGMGLAFQEOQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
601 FKFTIGMGLAFQEOQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNWNASWEOTLPT 720
661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNWNASWEOTLPT 720
721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764

RESULT 12

US-10-473-127-779
; Sequence 779, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 779
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-779

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MTSFSSPVFRLETDGQGDGEADRGKLDGSLGPPMESQFGEDRKFAPIRVNLNY 60
DB 1 MTSFSSPVFRLETDGQGDGEADRGKLDGSLGPPMESQFGEDRKFAPIRVNLNY 60
QY 61 RKGAGASQPPNFRDRRLFNASRGVDPEDLAGLPEYLSKTYLTDSEYTGSTGKTCL 120
DB 61 RKGAGASQPPNFRDRRLFNASRGVDPEDLAGLPEYLSKTYLTDSEYTGSTGKTCL 120
QY 121 MKAVLNLDKGVNACILPQLQDRDGNPQPLVNAQCTDDYRGRSHALHIAIKRSQCVCV 180

121 MKAVLNLDKGVNACILPQLQDRDGNPQPLVNAQCTDDYRGRSHALHIAIKRSQCVCV 180
181 LIVENGANVHARACGRFFQKGGCTCFYFGEPLSLAACTKQWDVVSYLENPHQPASLOA 240
181 LIVENGANVHARACGRFFQKGGCTCFYFGEPLSLAACTKQWDVVSYLENPHQPASLOA 240
241 TDSQNTVHLVMTSDNSAENIALVTSWYDGLQAGARLCPTVQLEDIRNLQDLTPLKL 300
241 TDSQNTVHLVMTSDNSAENIALVTSWYDGLQAGARLCPTVQLEDIRNLQDLTPLKL 300
301 AAKEKIEIFRILOREFSGLSHRKFTWCYCPVRVSLYDLASVDSCEENSVLIIAF 360
301 AAKEKIEIFRILOREFSGLSHRKFTWCYCPVRVSLYDLASVDSCEENSVLIIAF 360
361 HCKSPHHRMVMVLEPLNKLQAKWDLIPKFFLNFCLNIYMFIFTAVAYHOPTLKQAA 420
361 HCKSPHHRMVMVLEPLNKLQAKWDLIPKFFLNFCLNIYMFIFTAVAYHOPTLKQAA 420
421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
481 TVVSQVCLFALATEWYLPILVLSALVGLWNLVYTRGFQHTGIYSVMIOKVILLRDLRFL 540
481 TVVSQVCLFALATEWYLPILVLSALVGLWNLVYTRGFQHTGIYSVMIOKVILLRDLRFL 540
541 IYLVFLFGFAVALVLSQEAWEPEPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
541 IYLVFLFGFAVALVLSQEAWEPEPTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
601 FKFTIGMGLAFQEOQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
601 FKFTIGMGLAFQEOQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNWNASWEOTLPT 720
661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNWNASWEOTLPT 720
721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764

RESULT 13

US-10-915-017-36
; Sequence 36, Application US/10915017
; Publication No. US20050095650A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: UCSF-084CON2
; CURRENT APPLICATION NUMBER: US/10/915,017
; CURRENT FILING DATE: 2004-08-09
; PRIOR APPLICATION NUMBER: 09/978,303
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-915-017-36

Query Match 100.0%; Score 4004; DB 5; Length 764;

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPAPQIRVNLNY 60
Db 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPAPQIRVNLNY 60

Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYESTEGTGKTC 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYESTEGTGKTC 120

Qy 121 MKAVLNKDGVNACILPQLQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKRSLOCVK 180
Db 121 MKAVLNKDGVNACILPQLQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKRSLOCVK 180

Qy 181 LLVENGANVHARACGRFFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHOPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHOPASLOA 240

Qy 241 TDSQGNVTALVMIISDNSAENIALVTSMDGLLQAGARLCPVTQLEDIRNLQDLTPKL 300
Db 241 TDSQGNVTALVMIISDNSAENIALVTSMDGLLQAGARLCPVTQLEDIRNLQDLTPKL 300

Qy 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360

Qy 361 HCKSPHHRMVLEPLNKLQAKWDLIIPKFELNLCNLIYMFIFTAVAHQPTLKQAA 420
Db 361 HCKSPHHRMVLEPLNKLQAKWDLIIPKFELNLCNLIYMFIFTAVAHQPTLKQAA 420

Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQWTFWRRHVFIIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQWTFWRRHVFIIWISFIDSYPEILFLFOALL 480

Qy 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIQKVLRLDLRFL 540
Db 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIQKVLRLDLRFL 540

Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMGEQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMGEQDEGNGAQRGILEASLEL 600

Qy 601 FKFTIGMELAFQELHFRGMVLLLLAYVLLTYLILLNMLIAMSNTVNSVATDSWSIW 660
Db 601 FKFTIGMELAFQELHFRGMVLLLLAYVLLTYLILLNMLIAMSNTVNSVATDSWSIW 660

Qy 661 KLOKAIISVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCPRVEEVNWSWEQTLPT 720
Db 661 KLOKAIISVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCPRVEEVNWSWEQTLPT 720

Qy 721 LCEDPGAGVPRTELENPVLASPPKEDDGEASEENYVPVQLQSN 764
Db 721 LCEDPGAGVPRTELENPVLASPPKEDDGEASEENYVPVQLQSN 764

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RESULT 14

```

US-11-013-090-5
; Sequence 5, Application US/11013090
; Publication No. US20050158827A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Curfiss, Rory A.J.
; TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID
; FILE OF INVENTION: RECEPTOR FAMILY OF PROTEINS AND USES THEREOF
; FILE REFERENCE: MP198-093P2RC3DVIAM
; CURRENT APPLICATION NUMBER: US/11/013,090
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: US 09/439,165
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/421,134
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: US 09/258,633

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; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/114,078
; PRIOR FILING DATE: 1998-12-28
; PRIOR APPLICATION NUMBER: US 60/108,322
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo Sapiens
; US-11-013-090-5

Query Match 100.0%; Score 4004; DB 6; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPAPQIRVNLNY 60
Db 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPAPQIRVNLNY 60

Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYESTEGTGKTC 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYESTEGTGKTC 120

Qy 121 MKAVLNKDGVNACILPQLQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKRSLOCVK 180
Db 121 MKAVLNKDGVNACILPQLQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKRSLOCVK 180

Qy 181 LLVENGANVHARACGRFFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHOPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHOPASLOA 240

Qy 241 TDSQGNVTALVMIISDNSAENIALVTSMDGLLQAGARLCPVTQLEDIRNLQDLTPKL 300
Db 241 TDSQGNVTALVMIISDNSAENIALVTSMDGLLQAGARLCPVTQLEDIRNLQDLTPKL 300

Qy 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360

Qy 361 HCKSPHHRMVLEPLNKLQAKWDLIIPKFELNLCNLIYMFIFTAVAHQPTLKQAA 420
Db 361 HCKSPHHRMVLEPLNKLQAKWDLIIPKFELNLCNLIYMFIFTAVAHQPTLKQAA 420

Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQWTFWRRHVFIIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQWTFWRRHVFIIWISFIDSYPEILFLFOALL 480

Qy 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIQKVLRLDLRFL 540
Db 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIQKVLRLDLRFL 540

Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMGEQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMGEQDEGNGAQRGILEASLEL 600

Qy 601 FKFTIGMELAFQELHFRGMVLLLLAYVLLTYLILLNMLIAMSNTVNSVATDSWSIW 660
Db 601 FKFTIGMELAFQELHFRGMVLLLLAYVLLTYLILLNMLIAMSNTVNSVATDSWSIW 660

Qy 661 KLOKAIISVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCPRVEEVNWSWEQTLPT 720
Db 661 KLOKAIISVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCPRVEEVNWSWEQTLPT 720

Qy 721 LCEDPGAGVPRTELENPVLASPPKEDDGEASEENYVPVQLQSN 764
Db 721 LCEDPGAGVPRTELENPVLASPPKEDDGEASEENYVPVQLQSN 764

RESULT 15
US-10-168-651-3
; Sequence 3, Application US/10168651

```

Publication No. US20030171275A1
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: BAUGHN, Mariah R.
APPLICANT: BURFORD, Neil
APPLICANT: AU-YOUNG, Janice
APPLICANT: LU, Young Aina M.
APPLICANT: YANG, Junming
APPLICANT: REDDY, Roopa
APPLICANT: LAL, Preeti
APPLICANT: HILLMAN, Jennifer L.
APPLICANT: AZIMZAI, Yalda
APPLICANT: YUE, Henry
APPLICANT: NGUYEN, Dannie B.
APPLICANT: YAO, Monique G.
APPLICANT: GANDHI, Ameen R.
APPLICANT: TANG, Y. Tom
APPLICANT: KHAN, Farrah A.
TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
FILE REFERENCE: PI-0005 PCT
CURRENT APPLICATION NUMBER: US/10/168,651
CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: 60/172,000; 60/176,083; 60/177,332; 60/178,572; 60/179,758;
60/181,625
PRIOR FILING DATE: 1999-12-23; 2000-01-14; 2000-01-21; 2000-01-28; 2000-02-02;
2000-02-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PERL Program
SEQ ID NO 3
LENGTH: 764
TYPE: PRT
ORGANISM: Homo sapiens
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030171275A1 2446438CD1
US-10-168-651-3

Query Match 99.9%; Score 3998; DB 4; Length 764;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 MTSFSSPVRLTDLGGQDGEADRGKLDGSGLPMPMESQFGEDRKFPQIRVNLNY 60
Db 1 MTSFSSPVRLTDLGGQDGEADRGKLDGSGLPMPMESQFGEDRKFPQIRVNLNY 60
Qy 61 RKGTSASQDPNRPDRDLNFAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTKTCL 120
Db 61 RKGTSASQDPNRPDRDLNFAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTKTCL 120
Qy 121 MKAVLNLDGAVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRSHALHIAIEKRSIQCVK 180
Db 121 MKAVLNLDGAVNACILPLQLIDRDSGNPQPLVNAQCTDDYYRSHALHIAIEKRSIQCVK 180
Qy 181 LLVENGANVHARACGRPFQGGTCTFYFGBELPLSLAACTQWDVSVYLLNPHQASLOA 240
Db 181 LLVENGANVHARACGRPFQGGTCTFYFGBELPLSLAACTQWDVSVYLLNPHQASLOA 240
Qy 241 TDSQGNVTLHALVMSDNSAENIALVTSMDYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQGNVTLHALVMSDNSAENIALVTSMDYDGLLOAGARLCTVQLEDIRNLQDLTPLKL 300
Qy 301 AAKEGKTEIFRHILQREFSGLSHLSKRAFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Db 301 AAKEGKTEIFRHILQREFSGLSHLSKRAFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Qy 361 HCKSPHRRMVVLEPLNKLLOAKWDLIIPKFFNLNLIYMFIFTAVAYHQTLLKQAA 420
Db 361 HCKSPHRRMVVLEPLNKLLOAKWDLIIPKFFNLNLIYMFIFTAVAYHQTLLKQAA 420
Qy 421 PHLKAEGVNSMLLTGHTLILLLGGIYLLVQGLWYFWRHVFIIWISFIDSFEIILFLQALL 480
Db 421 PHLKAEGVNSMLLTGHTLILLLGGIYLLVQGLWYFWRHVFIIWISFIDSFEIILFLQALL 480

Qy 481 TVVSQVLCFLAIEWYLPILLVSALVGLWNLNLLYYTRGFQHTGIYSVMIQVILRDLRFL 540
Db 481 TVVSQVLCFLAIEWYLPILLVSALVGLWNLNLLYYTRGFQHTGIYSVMIQVILRDLRFL 540
Qy 541 IYLVFLFGPAVALVSLSQEAWRPEAPTGNATESVQPMEGQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGPAVALVSLSQEAWRPEAPTGNATESVQPMEGQDEGNGAQRGILEASLEL 600
Qy 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLQKAI SVLEMENGYWCRKQKORAGVMLTVGTPDGPSPDERWCFRVEEVNWNASWEQTLPT 720
Db 661 KLQKAI SVLEMENGYWCRKQKORAGVMLTVGTPDGPSPDERWCFRVEEVNWNASWEQTLPT 720
Qy 721 LCEDPSGAGVPRTLENPVLASPPKEDDEGASEENYVPVQLQSN 764
Db 721 LCEDPSGAGVPRTLENPVLASPPKEDDEGASEENYVPVQLQSN 764

Search completed: February 18, 2006, 03:50:36
Job time : 172 secs

GenCore version 5.1.7
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OM protein - proteasp search, using sw model

Run on: February 18, 2006, 03:47:55 ; Search time 18 Seconds
(without alignments)
603.332 Million cell updates/sec

Title: US-09-445-614B-2

Perfect score: 4004

Sequence: 1 MTPSSSPVRFLTLGGQE.....EDGASENYVPVQLQSN 764

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 107819 seqs, 14214640 residues

Total number of hits satisfying chosen parameters: 107819

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1653.5	41.3	839	7 US-11-076-431-6	Sequence 6, Appli
2	1648.5	41.2	839	7 US-11-076-431-8	Sequence 8, Appli
3	1639.5	40.9	839	7 US-11-076-431-2	Sequence 2, Appli
4	1639.5	40.9	839	7 US-11-076-431-4	Sequence 4, Appli
5	1639.5	40.9	839	7 US-11-005-216-2	Sequence 2, Appli
6	594.5	14.8	729	6 US-10-511-538-101	Sequence 101, App
7	467	11.7	557	6 US-10-821-234-1593	Sequence 1593, Ap
8	161.5	4.0	1104	7 US-11-099-855-2	Sequence 2, Appli
9	159	4.0	1159	6 US-10-055-877-139	Sequence 139, App
10	151	3.8	1765	6 US-10-055-877-140	Sequence 140, App
11	151	3.8	1940	6 US-10-055-877-141	Sequence 141, App
12	150	3.7	4384	6 US-10-821-234-1120	Sequence 1120, Ap
13	144.5	3.6	1104	7 US-11-099-855-11	Sequence 11, Appl
14	141	3.5	1104	7 US-11-099-855-13	Sequence 13, Appl
15	135	3.4	1059	6 US-10-055-877-138	Sequence 138, App
16	135	3.4	1104	7 US-11-099-855-12	Sequence 12, Appl
17	130.5	3.3	835	7 US-11-186-283-2	Sequence 2, Appli
18	125.5	3.1	505	7 US-11-072-512-2553	Sequence 2553, Ap
19	124.5	3.1	993	6 US-10-055-877-6	Sequence 6, Appli
20	123.5	3.1	791	6 US-10-055-877-137	Sequence 137, App
21	123	3.1	989	6 US-10-821-234-975	Sequence 975, App
22	121	3.0	393	6 US-10-485-517-197	Sequence 197, App
23	120	3.0	784	7 US-11-072-175-153	Sequence 153, App
24	119.5	3.0	1001	7 US-11-072-512-2283	Sequence 2283, Ap
25	117	2.9	263	7 US-11-072-512-3095	Sequence 3095, Ap

26	117	2.9	645	7 US-11-072-512-2588	Sequence 2588, Ap
27	116.5	2.9	835	7 US-11-186-283-8	Sequence 8, Appli
28	113	2.8	2471	7 US-11-050-346-68	Sequence 68, Appl
29	112.5	2.8	657	7 US-11-072-512-2529	Sequence 2529, Ap
30	111.5	2.8	2556	7 US-11-050-346-67	Sequence 67, Appl
31	111	2.8	1719	7 US-11-234-786-378	Sequence 378, App
32	109	2.7	757	6 US-10-055-877-157	Sequence 157, App
33	107	2.7	1115	6 US-10-055-877-160	Sequence 160, App
34	106.5	2.7	501	7 US-11-055-822-52	Sequence 52, Appl
35	105.5	2.6	795	7 US-11-072-512-2378	Sequence 2378, Ap
36	105	2.6	505	6 US-10-487-857-2440	Sequence 2440, Ap
37	105	2.6	1873	7 US-11-126-313-29	Sequence 29, Appl
38	105	2.6	2339	7 US-11-096-281-11	Sequence 11, Appl
39	104.5	2.6	2261	6 US-10-995-561-600	Sequence 600, App
40	104.5	2.6	2261	6 US-10-511-545-1	Sequence 1, Appli
41	104.5	2.6	2261	7 US-11-055-309A-9	Sequence 9, Appli
42	104.5	2.6	2261	7 US-11-055-309A-10	Sequence 10, Appl
43	104	2.6	530	7 US-11-072-512-3649	Sequence 3649, Ap
44	103	2.6	357	6 US-10-793-626-2558	Sequence 2558, Ap
45	103	2.6	656	7 US-11-234-786-379	Sequence 379, App

ALIGNMENTS

RESULT 1

US-11-076-431-6
; Sequence 6, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant S512Y
US-11-076-431-6

Query Match 41.3%; Score 1653.5; DB 7; Length 839;
Best Local Similarity 48.5%; Pred. No. 1.1e-131;
Matches 344; Conservative 122; Mismatches 199; Indels 45; Gaps 11;
Qy 74 FDRDLFNAVRGVPEDLAGLPEYLSKTSKYLTDSEVTGCTCKLMAKAVLNKGVNA 133
Db 113 YDRRSFEAVANQNCDLESLLFLQSKKHLTDNEFKDPETGKTKLLKAMLNHDGONT 172
Qy 134 CILPLLQIDRDSGNPOLPVNAOCTDDYRGHSAHIAIEKRSLQCVKLLVYENGANVHARA 193
Db 173 TIPLLLEIARQTDLSKELVNASYDYSYKQTAHIAIERNNALVTLLVENGADVQAAA 232
Qy 194 CGRFFQKGGQ-TCFYFGEPLPLSLAACTKQMDVVSYLLENPHQPASLOATDSQGNVTLHAL 252
Db 233 HGDFFKTKGRPGFYFGEPLPLSLAACTNOLGI VKFLQNSWQTADISARDSVGNVTLHAL 292
Qy 253 VMISDMSAENIALVTSMDYDGLQAGARLCPTVOLEDIRNLODITPLKLAKEGKIEIFRH 312
Db 293 VEVADNTADNTKEVTSMYNEILMLGAKHPTLKLBELTNKKGMTPLAALAAAGTKIGVLA 352
Qy 313 ILQREFS--GLSHLSRKPTWCYGPVRVSLDYLDASVDSCENSVLEITIAF-HCKSPHRR 369


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Db 353 ILQREIPEPCRHLSRKFTWAGPVHSSLYDLSCIDTCCKNSVLEVIAYSSSETPNRHD 412
Qy 370 MVLLEPLNKLQAKWDLIPK-FFLNPLCNLIYMFIFTAVAYHPTLKQAAAPHLKAE-V 427
Db 413 MLVLEPLNKLQAKWDFVKRIFFVFNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469
Qy 428 GNSMLLTGHLILLGGIYLLVGQWYFMRHRHVPFIWISFIDSYPEILFLFOALLTVVSOVL 487
Db 470 GDYFRVTGEILSVLGGVYFFFRGQVFLQRRPSMKTLFVDSYSEMLFFLQSLFMLATVVL 529
Qy 488 CFLAEIWEYLLPLLSALVULGWLNLYYTRGFQHTGIYSVMIOKVILRDLLRFLLIYVLELP 547
Db 530 YFSLHKEYVASMVFSALGWTNMLYYTRGFQOMGIYAVMIERKMLRDLCRFMEFVYVLELP 589
Qy 548 GFAVALVLSQEA-----WRPEAPTGNATESVQPMEGQEDGNGAQYRGIL 594
Db 590 GFSTAVVTLIEDGKNDLSPSESTSHRWGPACPPDSS-----YNSLY 632
Qy 595 EASLELFKFTIGMGELAFQOLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVAT 654
Db 633 STCLELFKFTIGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNKIAQ 692
Qy 655 DWSIWKLQKAI SVLEMENGYWMC-RKKORAGVMLTVGTPDGSPPDERMCFRVEEVNWS 713
Db 693 ESKNIWKLQRAITILDTEKSFCLKMRKAFRSGKLLQVGYTPDGKDDYRWCVRVDEVNWT 752
Qy 714 WEQTLPTLCDDPSGA-GVPRTLNPLVSLPPKDEDEGASENVVPVQLQ 762
Db 753 WNTNVGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNPALVPLL 798

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RESULT 2

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US-11-076-431-8
; Sequence 8, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VR1 RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-076-431-8

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```

Query Match 41.2%; Score 1648.5; DB 7; Length 839;
Best Local Similarity 48.5%; Pred. No. 3e-131;
Matches 344; Conservative 121; Mismatches 200; Indels 45; Gaps 11;

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Qy 74 FDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSYTEGSTGKTCCLMKAVNLKQGVNA 133
Db 113 YDRRSFEAVQNNQCQDLESLLFLQSKKHLTDNEFKDPETGKTCCLMKAMNLHDGQNT 172
Qy 134 CILPLLIQDRDSGNPQPLVNAQCTDDYYRGHSHALHIAIEKRSLOCVKLLVENGANVHARA 193
Db 173 TIPLLLEIARQTDLSKELVNASYDTSYKQGTALHIAIERNMALVTLVLENGADVQAAA 232
Qy 194 CGRFFQKQG-TCFYFGEPLSLAACTQKQDWDVSYLLENPHQPASLOATDSQGNVTLHAL 252
Db 233 HGDFFPKTKRPGFYFGEPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTLHAL 292
Qy 253 VMLSDNSAENIALVTSYVDGLQAGRLCPTVQLEDIRNLQDLTFLKLAKEGKIEIFRH 312
Db 293 VEADNTADNTKFTVSYNEILMLGAKLHPTLKLLELTNKKGMTPLAALAAAGTKIGVLAY 352

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Qy 313 ILQREPS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAP-HCKSPHRHR 369
Db 353 ILQREIPEPCRHLSRKFTWAGPVHSSLYDLSCIDTCCKNSVLEVIAYSSSETPNRHD 412
Qy 370 MVLLEPLNKLQAKWDLIPK-FFLNPLCNLIYMFIFTAVAYHPTLKQAAAPHLKAE-V 427
Db 413 MLVLEPLNKLQAKWDFVKRIFFVFNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469
Qy 428 GNSMLLTGHLILLGGIYLLVGQWYFMRHRHVPFIWISFIDSYPEILFLFOALLTVVSOVL 487
Db 470 GDYFRVTGEILSVLGGVYFFFRGQVFLQRRPSMKTLFVDSYSEMLFFLQSLFMLATVVL 529
Qy 488 CFLAEIWEYLLPLLSALVULGWLNLYYTRGFQHTGIYSVMIOKVILRDLLRFLLIYVLELP 547
Db 530 YFSLHKEYVASMVFSALGWTNMLYYTRGFQOMGIYAVMIERKMLRDLCRFMEFVYVLELP 589
Qy 548 GFAVALVLSQEA-----WRPEAPTGNATESVQPMEGQEDGNGAQYRGIL 594
Db 590 GFSTAVVTLIEDGKNDLSPSESTSHRWGPACPPDSS-----YNSLY 632
Qy 595 EASLELFKFTIGMGELAFQOLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVAT 654
Db 633 STCLELFKFTIGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNKIAQ 692
Qy 655 DWSIWKLQKAI SVLEMENGYWMC-RKKORAGVMLTVGTPDGSPPDERMCFRVEEVNWS 713
Db 693 ESKNIWKLQRAITILDTEKSFCLKMRKAFRSGKLLQVGYTPDGKDDYRWCVRVDEVNWT 752
Qy 714 WEQTLPTLCDDPSGA-GVPRTLNPLVSLPPKDEDEGASENVVPVQLQ 762
Db 753 WNTNVGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNPALVPLL 798

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RESULT 3

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US-11-076-431-2
; Sequence 2, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VR1 RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: variant Y511A
US-11-076-431-2

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Query Match 40.9%; Score 1639.5; DB 7; Length 839;
Best Local Similarity 48.3%; Pred. No. 1.7e-130;
Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;

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Qy 74 FDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSYTEGSTGKTCCLMKAVNLKQGVNA 133
Db 113 YDRRSFEAVQNNQCQDLESLLFLQSKKHLTDNEFKDPETGKTCCLMKAMNLHDGQNT 172
Qy 134 CILPLLIQDRDSGNPQPLVNAQCTDDYYRGHSHALHIAIEKRSLOCVKLLVENGANVHARA 193
Db 173 TIPLLLEIARQTDLSKELVNASYDTSYKQGTALHIAIERNMALVTLVLENGADVQAAA 232
Qy 194 CGRFFQKQG-TCFYFGEPLSLAACTQKQDWDVSYLLENPHQPASLOATDSQGNVTLHAL 252

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Db 233 HGDFPKTKGRPGFVFGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTVLHAL 292
Qy 253 VMISDNSAENIALVTSMDYDGLQAGARLCPTVQLEDIRNLQDLTPLKLAAREKIEIPRH 312
Db 293 VEADNTADNTKFTVSMYNEILMLGAKLHPTLKLEELTNKGMTPLAALAACTGKIGVLAY 352
Qy 313 ILQREFS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF-HCKSPHRRH 369
Db 353 ILQREIQBEPCRHLSRKFTWAYGPHVSSLYDLSCIDTCENKSVLEIAYSSSTPNRHD 412
Qy 370 MVVLEPLNKLQAKWDLILPK-EPFNFLCNLIYFIPTAVAYHOPTLKKQAAPHLKAB-V 427
Db 413 MLLVEPLNRLQDKWDRFVKRIFTFNFLVYCLMIIFTMAAYYRPV---DGLPPFKMEKT 469
Qy 428 GNSMLLTGHILILGGLIYLLVQGLWYFWRHVFVFIWISFIDSYFEILFLQALLTVVSOVL 487
Db 470 GDYFRVTGEILSVLGGVYFFRGIOYFLQRPMSKTLFVDSASEMLFPLQSLFMLATVVL 529
Qy 488 CFLAIEWYLLPLVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRLFLIYVPLF 547
Db 530 YFSLKEXYASVMVPSLALGWTNMLIYTRGFQOMGIYAVMIEKMLRDLCRFMFVYVPLF 589
Qy 548 GFAVALYSLQEA-----WRPEAPTGNATESVQPMEGDEGNGAQYRGIL 594
Db 590 GFSTAVVTLIEDGKNDLSPESTSHRWGPACRPDSS-----YNSLY 632
Qy 595 EASLELKFPTIGMELAFQOLHFRGMVLLLLAYVLLIYLLNLMLIALMSETVNSVAT 654
Db 633 STCLELKFPTIGMDELFTENYDFKAVFIILLAYVILITILLNLMLIALMGETVNVKIAQ 692
Qy 655 DSWSIWKLOKAIISVLENGYWC-RKKQAGVMLTVGTRPDGSPDRWCFRVEEVNWS 713
Db 693 ESKNIWKLOKRAITILDTKSPKCMKRAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWT 752
Qy 714 WEQTLPTLCEDPSGA-GVPRTEPLNVLASPPKEDGSEENYVYVOLLQ 762
Db 753 WNTNNGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798
RESULT 4
US-11-076-431-4
; Sequence 4, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USSES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant Y511C
US-11-076-431-4

Query Match 40.9%; Score 1639.5; DB 7; Length 839;
Best Local Similarity 48.3%; Pred. No. 1.7e-130;
Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;
Qy 74 FDRDLFNVAISRGVPEDLAGLPEVLSKTYLTDSEYTEGSTGKTLKMAVLNLDGVA 133
Db 113 YDR#FEAQAQNQCQDLESLLFLQSKKHLTDNEFKDPETGKTCLLKAMLNLDHGQNT 172

Qy 134 CILFLLQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIERKSLQCVKLLVGENGVHARA 193
Db 173 TIPLLLEIARQTDLSKELVNASYTDYVKGQTALHIAIERENMALVTLLVENGADQAAA 232
Qy 194 CGRFQKQOG--TCYFGEELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTVLHAL 252
Db 233 HGDFPKTKGRPGFVFGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTVLHAL 292
Qy 253 VMISDNSAENIALVTSMDYDGLQAGARLCPTVQLEDIRNLQDLTPLKLAAREKIEIPRH 312
Db 293 VEADNTADNTKFTVSMYNEILMLGAKLHPTLKLEELTNKGMTPLAALAACTGKIGVLAY 352
Qy 313 ILQREFS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF-HCKSPHRRH 369
Db 353 ILQREIQBEPCRHLSRKFTWAYGPHVSSLYDLSCIDTCENKSVLEIAYSSSTPNRHD 412
Qy 370 MVVLEPLNKLQAKWDLILPK-EPFNFLCNLIYFIPTAVAYHOPTLKKQAAPHLKAB-V 427
Db 413 MLLVEPLNRLQDKWDRFVKRIFTFNFLVYCLMIIFTMAAYYRPV---DGLPPFKMEKT 469
Qy 428 GNSMLLTGHILILGGLIYLLVQGLWYFWRHVFVFIWISFIDSYFEILFLQALLTVVSOVL 487
Db 470 GDYFRVTGEILSVLGGVYFFRGIOYFLQRPMSKTLFVDSASEMLFPLQSLFMLATVVL 529
Qy 488 CFLAIEWYLLPLVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRLFLIYVPLF 547
Db 530 YFSLKEXYASVMVPSLALGWTNMLIYTRGFQOMGIYAVMIEKMLRDLCRFMFVYVPLF 589
Qy 548 GFAVALYSLQEA-----WRPEAPTGNATESVQPMEGDEGNGAQYRGIL 594
Db 590 GFSTAVVTLIEDGKNDLSPESTSHRWGPACRPDSS-----YNSLY 632
Qy 595 EASLELKFPTIGMELAFQOLHFRGMVLLLLAYVLLIYLLNLMLIALMSETVNSVAT 654
Db 633 STCLELKFPTIGMDELFTENYDFKAVFIILLAYVILITILLNLMLIALMGETVNVKIAQ 692
Qy 655 DSWSIWKLOKAIISVLENGYWC-RKKQAGVMLTVGTRPDGSPDRWCFRVEEVNWS 713
Db 693 ESKNIWKLOKRAITILDTKSPKCMKRAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWT 752
Qy 714 WEQTLPTLCEDPSGA-GVPRTEPLNVLASPPKEDGSEENYVYVOLLQ 762
Db 753 WNTNNGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798
RESULT 5
US-11-005-216-2
; Sequence 2, Application US/11005216
; Publication No. US20050287633A1
; GENERAL INFORMATION:
; APPLICANT: McIntyre, Peter
; APPLICANT: James, Iain Fraser
; TITLE OF INVENTION: Human Vanilloid Receptor
; FILE REFERENCE: 4-30875A
; CURRENT APPLICATION NUMBER: US/11/005,216
; CURRENT FILING DATE: 2004-12-06
; PRIOR APPLICATION NUMBER: US/09/533,220
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1
; PRIOR FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 1.30
; SEQ ID NO 2
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-005-216-2

Query Match 40.9%; Score 1639.5; DB 7; Length 839;
Best Local Similarity 48.3%; Pred. No. 1.7e-130;
Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;
Qy 74 FDRDLFNVAISRGVPEDLAGLPEVLSKTYLTDSEYTEGSTGKTLKMAVLNLDGVA 133

Db	113	YORRSIFEVAQNQCODLESLLFLQKSKGLTDFNEFKDPETGKTCLLKAMLHDPQNT	172
Qy	134	CILPLLOIQIRDGSGNPOPLVNAOCTDDYVRGHSALHIAIEKRSLOQVKLLVENGANVHARA	193
Db	173	TIPLLELAIARQDTSKELVNASYDTSYKGGTALHIAIERNNMALVTLLVENGADVQAAA	232
Qy	194	CGRFFQKGG-TCFYGBELPLSLAACTKQWDVWSYLLLENPHQPASLQATDSQGNVTVLHAL	252
Db	233	HGDFFPKTKGRPGFYGBELPLSLAACTNQLGIVKFLQLQNSWQTADISARDSVGNVTVLHAL	292
Qy	253	VMSDNSAENIALVTSWYDGLLOAGARLCPTVQLEEDTRNLODLTPLKAAKEGKIIIFRH	312
Db	293	VEVADNTADNTKFPVTSMTNEILILGAKLHPTLKLEELTNKKGMPLALAAAGTKIGVLAY	352
Qy	313	ILQREBS--GLSHLSKRTFCWYGPVRVSLYDLASVDSCRENSVLEIIAF-HCKSPHRRH	369
Db	353	ILQRELOEPECHRLSKRTFEWAYGPVHSSLYDLSCIDCEKNSVLEIVAYSSETPNRHD	412
Qy	370	MVVELEPNKLLQAKDLLIPK-FFLNFPLCNLIYMFIFTAVAYHQPTLKQKAAAPHLKAE-V	427
Db	413	MLLVEPLNLLQDKWDRFVKRIIFYENFLVYCLYMIIFTMAAYRPV---DGLPFPKQKXT	469
Qy	428	GNSMLLTGHILLILGGIYLLVQOLWYFRRHVFTWISFIDSYFELFLFOALLTVVVSQVL	487
Db	470	GDFYRVTGBILSVLGSGVFFPFGIOYFLQRPSPKMTLFDVDSYSEMLFFLOSLFMTATVVL	529
Qy	488	CFLAIIEWYLLPLVASLVALGWLMLYYTRGFOHTGIYSVMIOKVTLRDLRLFLLYLVFLP	547
Db	530	YFSLHKEYVASVFSALGWTNMLYYTRGFQOMGIYAVMEKMLRLDRCPFMFVYVFLP	589
Qy	548	GPAVALVSLSQBA-----WRPEAPTGNATESVQPMBOGDEGNAQYRGIL	594
Db	590	GFETAVVTLIEDKNDLSLPSESTSHRWGRGPACRPPDGS-----YNSLY	632
Qy	595	EASLELPKFTIGWELAQBOQLHFGMWLILLIYALLVTLTYILLNMLIALMSETVNSVAT	654
Db	633	STCLELFFKFTIGMDLEFTENYDFKAVPIIILLIYAVTLTYILLNMLIALMGTVNKIAQ	692
Qy	655	DSWSIWLOKAIASVLEMENGYWWC-RKQKQAGVMLTVGTPDGSPDERMCFRVEEVNMA5	713
Db	693	ESKNIWLOQRAITLIDTEK5FLKCMKRAFRSGKLLQVGYTPDGDKDYRCFRVDEVNWT	752
Qy	714	WEOTLPTLCEDPGA-GVPRTLLENPVLASPPKBEDEGASEENYVPVOLQ	762
Db	753	WNTNVGIINEEDPNCCEGVKRTLSFSLRS-----RVSGRHWKNFALVPLLL	798

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; PRIOR APPLICATION NUMBER: US 60/462,047
;
; PRIOR FILING DATE: 2003-04-07
;
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1593
; LENGTH: 557
; TYPE: prt
; ORGANISM: Homo sapiens
US-10-821-234-1593

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Query Match	11.7%	Score 467;	DB 6;	Length 557;
Best Local Similarity	28.2%	Pred. No. 1.2e-31;		
Matches 140;	Conservative	89;	Mismatches 184;	Indels 84;
				Gaps 16

Qy	242	DSQGNVTVLHALVMI SDSNAENIALVTSYDGL---QAGARLCPTVQLEDRINLODLTPL	298
Db	25	DSLGNVTVLHIL---QPNKTFACQYNLLSYDRHGDHLQ---LDLVPNHQGLTPF	76
Qy	299	KLAAKECKIEIFRHILQREFSGLSHLSRKFTWCYGPVRSYLDASVDSC-EENSULEI	357
Db	77	KLAVGEGNTVMFOHMQK-----RKHTQWTYGPLSTLYDLTEIDSSGDSQSLEL	127
Qy	358	IAPHKSPHRRHMVVLPLNKLQAKWDLL-IPKPFNLNCLNYMFTTAVAYH---OP	413
Db	128	I-ITTKREARQILDTVPVELVSLWKRYGRPFQMLGALYLYICTMCCYIRPLKP	186
Qy	414	TLKKQAAPHLKAEVNGML-----LTGHILILGGIYLLVGQLMYFRRHV--	459
Db	187	RTNRTSPRDNLTLLQOKLQEAQWTPKDDIRLVGELVTVIGAILLVEVPDI FRMGVTR	246
Qy	460	FIWISPTDSFEILFLFOALLTVVVSQVLCFLAIEWYLPLLVSAVLGWLNLLYYTRGQH	519
Db	247	FFGQTLGGPFHVLIIYAFVVLVTVMRLISASGEVVPMSFALVGCNVMYFARGFQM	306
Qy	520	TGIYSVMIOKVILLDLRLFLIYLVFLGFAVALVLSQEAWRREAPFGPNATESVQDME	579
Db	307	LGSPITMIQKMI FGDMLRFCWLMAMVILGFASAFYII FQ-----TE	347
Qy	580	GOBDEGNGAOYRGITLSEASLELFKPTIGMGELAFQQLHFRGMVLLLLLYAVLLTYILN	639
Db	348	DPELGHFYDYPMALFTFELF-LTIIDGPANYNDLPF---MYSITVAFAIITLMLN	404
Qy	640	MLIALMSETVNSVATSDWSIKLQKAVISLEMENGY---MW-----CRKKQAGVMLTVG	691
Db	405	LLIAMMGDTHWRVAHERDELWRAQIVATVTWLERKLPRCLWPRSGICGREVLG-----	458
Qy	692	TKPDGSDPERWCERFVEE	708
Db	459	-----DRWFLRVED	467

RESULT 8
US-11-099-855-2
; Sequence 2, Application US/11099855
; Publication No. US2006014246A1
; GENERAL INFORMATION:
; APPLICANT: FLORES, CHRISTOPHER M.
; APPLICANT: LIU, YI
; APPLICANT: LUBIN, MARY LOU
; APPLICANT: QIN, NING
; TITLE OF INVENTION: 'CANTINE COLD- AND MENTHOL-SENSITIVE RECEPTOR 1'
; FILE REFERENCE: PRD-2211
; CURRENT APPLICATION NUMBER: US/11/099,855
; CURRENT FILING DATE: 2005-04-06
; PRIOR APPLICATION NUMBER: 60/560,400
; PRIOR FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/621,223
; PRIOR FILING DATE: 2004-10-22
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn ver. 3.3
; SEQ ID NO 2
; LENGTH: 1104
; TYPE: PRT

[illegible]

RESULT 9
US-10-055-877-139
; Sequence 139, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie


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QY 551 VA---LVLSQRAWR-----PEAPGPNATE---SVQPMGQEDGNGAQ 589
Db 883 VARQOILRQNEQMRWIFRSVIYEPYLAQMGQVPSDVSSTTDFSHCTFSGNESK----- 937
QY 590 YRGITIASLELFKFTIGWELAFQOLHFRGNVILLAYVLLTYILLINMLIALMSTV 649
Db 938 -----PLCVELDEYNLP---RFPEWI-----TIFLVCYMLSTNILLVLLVAMFGYTV 983
QY 650 NSVATDSWSIKQAKAISVLENN-----GYWV-----CRKKQAGVWL 688
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QY 689 TVGTRKDGSPBERWCFRVEENVASWE 715
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RESULT 15

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US-10-055-877-138
; Sequence 138, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gallach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Ratelli, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zethusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Cahterine
; APPLICANT: Eisen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shinkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ference
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT APPLICATION NUMBER: US/10/055,877
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262,892
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,598
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/263,799
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
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; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 138
; LENGTH: 1059
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-055-877-138
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Query Match 3.4%; Score 135; DB 6; Length 1059;
Best Local Similarity 26.3%; Pred. No. 0.0035;
Matches 75; Conservative 23; Mismatches 103; Indels 84; Gaps 13;
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Db 354 RYGHLLTINTLITSGADTAKRGIHGMFPLHLAALSGF-SDCCRLLSSGFDITDPPDFGR 412
QY 118 TCLMKAVLNKDGYNACILPLLQIDRDSGNPQLVNAOCTDDYYRGHSAHIAIEKRSIQ 177
Db 413 TCLHAAAAG---GNLECLNLLNTGADFNKKDKF-----GRSPLHYAAANCNYQ 458
QY 178 CVKLLVENGANVH---ARACGRPFQKGQCTCFYFGELPLSLAACTKQWD--VVSYLLBNP 232
Db 459 CLFALVGSASVNDLDERGC-----TELHYAA-TSDTDGKCLEYLLRND 501
QY 233 HQPASLQATDSQNTVLH-----ALVMI-----SDNSAENI 263
Db 502 ANPG---IRDKQGYNAVHYSAAGHRLCLQLIASETPLDVLMTSGTMDLSDSNDRATIS 558
QY 264 ALVTSMDYDGLLOAGARLCTVQLEDIRNLQDLTPLKLAKEGKIE 308
Db 559 PLHLAAYGHGHQALEVLVQSLDLDRNSSGRTPLDLAANFKGHVE 603
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GenCore version 5.1.7
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Run on: February 19, 2006, 07:53:46 ; Search time 705 Seconds
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Perfect score: 2469
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Gapop 10.0 , Gapext 1.0

Searched: 7204252 seqs, 1061369211 residues

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Post-processing: Minimum Match 0%

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- 12: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB_seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	662.4	26.8	2520	12 US-11-076-431-5	Sequence 5, Appli
2	660.8	26.8	2520	12 US-11-076-431-7	Sequence 7, Appli
3	659.2	26.7	2520	12 US-11-076-431-3	Sequence 3, Appli
4	659.2	26.7	3463	12 US-11-005-216-1	Sequence 1, Appli
5	657.6	26.6	2520	12 US-11-076-431-1	Sequence 1, Appli
6	129.6	5.2	702	8 US-10-750-185-42638	Sequence 42638, A
7	129.6	5.2	702	8 US-10-750-623-42638	Sequence 42638, A
8	77.8	3.2	1674	8 US-10-821-234-741	Sequence 100, App
9	75	3.0	2953	7 US-11-511-538-100	Sequence 5, Appli
10	70.6	2.9	153376	12 US-11-121-086-5	Sequence 4598, Ap
11	63.8	2.6	1400	12 US-11-136-527-4598	Sequence 502, App
12	63.8	2.6	1908	12 US-11-136-527-502	Sequence 91, Appli
13	54.8	2.2	179597	12 US-11-121-086-91	Sequence 109, App
14	54.6	2.2	1524	12 US-11-234-786-109	Sequence 35755, A
15	52.6	2.1	914	8 US-10-750-185-35755	Sequence 35755, A
16	52.6	2.1	914	8 US-10-750-623-35755	Sequence 1, Appli
17	48.6	2.0	3815	12 US-11-099-855-1	Sequence 185, App
18	48.4	2.0	384	12 US-11-234-786-185	Sequence 1080, Ap
19	46.4	1.9	1747	9 US-11-072-512-1080	Sequence 1859, Ap
20	46.4	1.9	2026	9 US-11-072-512-1859	

c	21	45.4	1.8	470	6	US-09-925-065A-675786	Sequence 675786,
	22	44.6	1.8	4870	12	US-11-136-527-311	Sequence 311, App
c	23	43.4	1.8	782	8	US-10-750-185-40785	Sequence 40785, A
c	24	43.4	1.8	782	8	US-10-750-623-40785	Sequence 40785, A
c	25	42.4	1.7	88421	12	US-11-205-109-1	Sequence 1, Appli
c	26	41	1.7	2183	9	US-11-072-512-1064	Sequence 1064, Ap
	27	41	1.7	4305	12	US-11-080-991-67	Sequence 7, Appli
	28	41	1.7	4339	7	US-10-912-971-7	Sequence 2, Appli
	29	40.8	1.7	37507	8	US-10-522-037-2	Sequence 2, Appli
	30	40.6	1.6	3468	7	US-10-755-092-2	Sequence 70, Appli
c	31	40.6	1.6	4350	12	US-11-124-367A-70	Sequence 5097, Ap
	32	40.6	1.6	95604	12	US-11-124-367A-5097	Sequence 3, Appli
	33	40.4	1.6	7893	12	US-11-186-731-3	Sequence 1, Appli
	34	40.4	1.6	8106	12	US-11-186-731-1	Sequence 6, Appli
	35	40.4	1.6	23907	12	US-11-186-731-6	Sequence 4, Appli
	36	40.4	1.6	24120	12	US-11-186-731-4	Sequence 43, Appli
	37	40.2	1.6	1993	12	US-11-120-308-43	Sequence 1679, Ap
	38	40	1.6	1669	9	US-11-072-512-1679	Sequence 1, Appli
	39	40	1.6	88421	12	US-11-205-109-1	Sequence 1675, Ap
	40	39.8	1.6	2185	9	US-11-072-512-1675	Sequence 75, Appli
	41	39.8	1.6	2815	9	US-11-072-512-75	Sequence 7399, Ap
c	42	39.6	1.6	600	12	US-11-136-527-7399	Sequence 3303, Ap
c	43	39.6	1.6	2479	12	US-11-136-527-3303	Sequence 20, Appli
	44	39.2	1.6	1485	12	US-11-143-980-20	Sequence 1, Appli
c	45	39.2	1.6	116856	12	US-11-143-980-1	

ALIGNMENTS

RESULT 1
US-11-076-431-5
; Sequence 5, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION: David
; APPLICANT: Hackos, Tito
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; PRIOR FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: variation
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant S512Y
US-11-076-431-5

Query Match 26.8%; Score 662.4; DB 12; Length 2520;
Best Local Similarity 61.1%; Pred. No. 6.1e-164;
Matches 1207; Conservative 0; Mismatches 731; Indels 36; Gaps 7;

Qy	316	TTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGTGTCCCGGAGGATCTGGCTGGA	375
Db	337	TATGATCGCAGGAGTATCTTTGAAGCGGTCTCAGATAACTCCAGGATCTGGAGAGC	396
Qy	376	CTTCCAGAGTACTCTGAGCAAGACGACGCAAGTACTCCAGGACTCGGAATACACAGAGGC	435
Db	397	CTGCTGCTCTTCTCGCAGAGAGCAGAGACCCCTCACAGACACGAGTTCAGAGACCC	456
Qy	436	TCCACAGGTAGAGTCCCTGATGAGGCTGTCTGTAACCTTAAGGACGGAGTCAATGCC	495
Db	457	GAGACGGGAGACCTGTCTGCTGAAAGCCATGCTCAACCTGCACGACGACAGACACC	516
Qy	496	TGCATTCTGCCACTGTCTGCAGATCGACAGGAGCTCTGGCAATCTCAGCCCTGTAAT	555

Db 517 ACCATCCCTGCTCTCGGAGATCGCGGCAAAACGACAGCCCTGAAGGAGCTGTGCAAC 576
Qy 556 GCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAAG 615
Db 577 GCCAGCTACCGGACAGCTACTAAGAGGCCACAGACACTGCACATCGCCATCGAGAGA 636
Qy 616 AGGAGTCTGCAGTGTGTGAAGCTCTCGTGTGGAATGGGGCCAAATGTGATGCCCGGGCC 675
Db 637 CGCAACATGCGCCCTGTGACCTCTCTGTGTGGAACCGGAGCAGACGTCCAGGCTCGGGCC 696
Qy 676 TGGGGCGGCTTTTCAGAAAGGGCCAAAG---GGAAGTGTCTTTTATTTTGGTGAAGTACCC 732
Db 697 CATGGGAGCTTTCTTAAGAAACAAAGGGCGGCTGGATTCTACTTCGGTGAATGCC 756
Qy 733 CTCTCTTTGGCGCTTGCAACAGCAGTGGGATGTGTAAGCTACCTCTCGGAGAACCCA 792
Db 757 CTGTCCCTGGCCCGGTGCACAAACAGCTGGGCATCGTGAAGTTCCTGTCTGCGAAGTCC 816
Qy 793 CACCAGCCGCCAGCTCGAGGCCACTGACTCCAGGGCAACACAGTCTCTGCATGCCCTA 852
Db 817 TGGCAGACGCGGACATCAGCGCCAGGACTCGGTGGGCAACACGCTGTGCAAGCCCTG 876
Qy 853 GTGATGATCGGACAACTCAGCTGAGAAATTTGCACTGTGTGACCAAGCATGTATGATGG 912
Db 877 GTGGAGTGGCCGACAAACAGCGCGCAACACAGAAAGTTTGTGACGAGCATGTACAATGAG 936
Qy 913 CTCTCCAGCTGGGGCCGCTCTGCCCTACCGTGCAGCTTGAGACATCCGCAACCTG 972
Db 937 ATTCTGATGTGGGGGCAAACTGCAACCCGACGCTGAAGCTGGAGGAGCTCAACAAG 996
Qy 973 CAGGATCTCAGGCTCTGAAGCTGGCGCGCAAGGAGGCAAGATCGAGATTTTCAGGCA 1032
Db 997 AAGGGAATGACCGCTGTGGCTCTGSCAGCTGGGACCGGGAAGATCGGGCTTTGGCCAT 1056
Qy 1033 ATCTCGAGCGGAGTT-----TTCAAGACTGAGCCACCTTTCCGAAAGTTACCGAG 1086
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Qy 1087 TGTGTCTATGGGCTGTCCGGGTGTGCTGTATGACTGTGCTGTGAGACAGCTGTGAG 1146
Db 1117 TGGGCTTACGGGCGCGTGCATCTCTCGCTGTACGACCTGTCTGTGATCGACACTGCGAG 1176
Qy 1147 GAGAACTCAGTGTGAGATCATTTGCCCTTTCAATTGCA---AGAGCCCGCAACCGACCCGA 1203
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Qy 1204 ATGGTGTGTTGGAGCCCTTGAAACAACTGCTGAGCGGAATGGGA---TGCTGCTATC 1260
Db 1237 ATGCTCTTGGTGGAGCGCTGAACCGGACTCTGCGAGGACAGTGGGACAGATTCGTCAAG 1296
Qy 1261 CCCAAGTCTCTTAACCTTCTGTGTAACTGATCTGATCTACATGTTCATCTTCCCGCTGT 1320
Db 1297 CGCATCTTCTACTTCAACTTCTCTGTGTCTACTGCTGTACATGATCATCTTTCACATGGCT 1356
Qy 1321 GCCTACCATCAGCTACCTTGAGAGACGCGCCCTCACCTGAAAGCGGAGTTGGA 1380
Db 1357 GCCTACTACAGGC-----CGTGGATGGCTTGCCCTCCCTTAAGATGGGAAAACTGGA 1410
Qy 1381 AACTCCATGTGTGAGCGGCCAATCCTTATCTGTCTAGGGGATCTACCTCTCGGTG 1440
Db 1411 GACTATTTCCGAGTTACTGGAGAGATCTGTGTGTGTAGGAGGAGTCTACTTCTTTTTC 1470
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Db 1471 CGAGGGATTCAGTATTTCTGCGAGAGCGCGCTGCGATGAAGACCTGTGTTGTGGACGC 1530
Qy 1501 TACTTTGAAATCTCTTCTGTTTCCAGGCCCTGTGCACAGTGGTGTCCCAAGGTGCTGTGT 1560
Db 1531 TACTATGAGATGCTTTCTTCTGCACTACTGTTCATGTGCGCCACCGTGTGCTGTAC 1590
Qy 1561 TTCCTGCGCAATCGAGTGGTACCTGCCCTCTGTGTGTGTCTGGCTGTGTGGGCTGGCTG 1620

Db 1591 TTCAGCCACCTCAAGGAGTATGTGGCTTCCATGTTATTCTCCCTGGCCCTTGGGCTGGACC 1650
Qy 1621 AACCTGCTTTTACTATACACGTGGCTTCCAGCAACACAGGCACTTACAGTGTTCATGATCCAG 1680
Db 1651 AACATGCTCTACTACACCGCGGTTTCCAGCAGATGGGCATCTATGCGGTCATGATAGAG 1710
Qy 1681 AAGGTCACTCTGGGACCTGCTGCGCTTCTTCTGATCTACTAGTCTTCTCTTTTCGGC 1740
Db 1711 AAGATGATCTGAGAGACCTGCGCTTTTCATGTTTGTCTACATGCTCTTCTTTGTCGGG 1770
Qy 1741 TTCGCTGTAGCCTGTGTAGCCTGTAGCCAGGAGGCTTGGCGCCCGAAGCTCTCATAGGC 1800
Db 1771 TTTTCCACAGCGGTGTGTAGCTGATTGAAGACGGGAAGATGACTTCCCTGCGCTGTGAG 1830
Qy 1801 CCCAATGCCACAGAGTCAGTGCAAGCCCATGAGGGGACAGAGGACGAGGGCAACGCGGGCC 1860
Db 1831 TCCACGTC-----GCACAGGTGCGGGGCTGCTGCGAGGCCCCCGGATAGC 1878
Qy 1861 CAGTACAGGGGTATCTCGAAGCCTCTTTGGAGCTCTTCAAAATTCAACATCGGCATGGGC 1920
Db 1879 TCCTACAAACAGCCTGTACTTCCACCTGCTGGAGCTGTTCAAAGTTTCAACATCGGCATGGGC 1938
Qy 1921 GAGCTGGCCTTCCAGGAGCAGCTGCATTTCCGCGGCATGCTGCTGCTGCTGCTGGCC 1980
Db 1939 GACCTGGAAGTTCAGTGAGAACTATGACTTCAAGGCTGTCTTCATCATCTCTGCTGCTGGCC 1998
Qy 1981 TAGTGTCTGCTCACTTACATCTGCTCTCAACATGCTCATCGCCCTCATGAGCGAGACC 2040
Db 1999 TATGTAATTTCTCACCTACATCTCTGCTCAACATGCTCATCGCCCTCATGSGTGAGACT 2058
Qy 2041 GTCAACAGTGTGCCACTGCAAGCTGAGGAGCTGGAAGCTGCAAGAGCCATCTCTGTCT 2100
Db 2059 GTCAACAGATCGCACAGGAGCAAGAACATCTGGAAGCTGCAAGAGCCATCACCATC 2118
Qy 2101 CTGGAGATGAGAAATGGCTATTGGTGTGCAGAAAG---CAGCGGGCAGGTGTGATG 2157
Db 2119 CTGGACACGAGAGAGGCTTCTTAAAGTGATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2178
Qy 2158 CTGACCTTGGCACTAAGCCAGATGCGAGCCCGGATGAGCGCTGTGTGCTTTCAGGGTGGAG 2217
Db 2179 CTGCAAGTGGGTACACACCTGATGCGCAAGGACGACTACCGGTGGTGTTCAGGGTGGAC 2238
Qy 2218 GAGGTGAATGGGCTTCATGAGGAGCAGCTGCTACGCTGTGTGAGGACCCG 2271
Db 2239 GAGGTGAATGGACCACTTGAACACCAACGTGGGCATCATCAACGAAGACCCG 2292

RESULT 2

US-11-076-431-7
; Sequence 7, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-076-431-7

Query Match 26.8%; Score 660.8; DB 12; Length 2520;
Best Local Similarity 61.1%; Pred. No. 1.6e-163;
Matches 1206; Conservative 0; Mismatches 732; Indels 36; Gaps 7;

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Db |||||
QY 337 TATGATCGCAGAGTATCTTTGAAGCCCTGTGCTCAGAATAACTGCGAGGATCTGAGAGC 396
Db |||||
QY 376 CTTCCAGAGTACTGAGCAAGCAGCAAGTACCTCACCAGCTCGGATACACAGAGGC 435
Db |||||
QY 397 CTGCTGCTCTTCTGCAAGAGCAAGAACCACTTCAAGAACAGAGTTCAAGAGCCCT 456
QY 436 TCCACAGTAAAGAGTGGCTCTGATGAAGGCTGTGCTGAACCTTAAAGGACGAGTCAATGCC 495
Db |||||
QY 457 GAGACAGGGAAGACCTGCTCTGCTGAAGCCATGCTCAACCTGCGACGAGGACAGACACC 516
QY 496 TGCATCTGACCACTGCTGACATGACAGGAGCTCTGCGAATCTCAGCCCTCGGTAAAT 555
Db |||||
QY 517 ACCATCCCTCTGCTCTGAGATCGCGCGGAAGCGGACAGCCTGAAGGAGCTTGTCAAC 576
QY 556 GCCCAGTGCACAGATGACTATTAACGAGGCCACAGCGCTCTGACATCGCATCTGAGAG 615
Db |||||
QY 577 GCCAGCTACACGACAGTACTTCAAGGGCCAGACAGCACTGCAATCGCCATCGAGAGA 636
QY 616 AGGAGTCTGACAGTGTGAAGCTCTCTGCTGAGAGATGGGGCCAATGTGCACTGCCGGGCC 675
Db |||||
QY 637 CGCAACATGGCCCTGCTGACCTCTCTGCTGAGAACGAGCAGAGCTCCAGGCTCGGGCC 696
QY 676 TGGCGCCGCTTCTTCCAGAGGGCCAG- - -GGACTTGTCTTTATTTTCGGTGAAGTACCC 732
Db |||||
QY 697 CATGGGACCTTCTTTAAGAAACCAAGGGCGGCTGGAATCTTACTTTCGGTGAATGCC 756
QY 733 CTCTCTTTGGCGCTTGCACCAAGCAGTGGATGTGTTAGCTTACCTCTCGGAGAACCA 792
Db |||||
QY 757 CTGTCTCTGGCGGCTGACCAACAGCTGGGCACTGCTGAAGTTCCTGCTGACAGATCC 816
QY 793 CACCAGCCCGCAGCCTGCGAGCCACTGACTCCCGAGGCAACAGACTCTGCTGACGCCCTA 852
Db |||||
QY 817 TGGCAGAGCGCGACATCAGCGCCAGGGACTCTGGTGGGCAACAGGCTGCTGACGCCCTG 876
QY 853 GTGATGATCTCGGACAACTCAGCTGAGAACATTCGACTGGTGAACAGCATGTATGATGG 912
Db |||||
QY 877 GTGAGGTGGCCGCAACACGGCCGCAACACAGAAAGTTGTGACGAGCATGTACAATGAG 936
QY 913 CTCCTCCAGCTGGGGCCCGCTCTGCCCTACCGTGCAGCTTGAGGACATCCGCAACTG 972
Db |||||
QY 937 ATTCCTGATGTGGGGGCCCAACTGCACCCGACGCTGAAGCTGGAGGAGCTCACCAACAAG 996
QY 973 CAGGATCTCAGCCCTCTGAAAGCTGGCCGCAAGGAGGCAAGATCGAGATTTTCAGGCAC 1032
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QY 997 AAGGAATGACCGCTGGCTCTGCGAGCTGGGACCGGGAAGATCGGGGCTTGGCCCTAT 1056
QY 1033 ATCTGCGAGGGGAGTT- - - - -TTCAAGGACTGAGCCACCTTTCCCGAAAGTTTCAACCGAG 1086
Db |||||
QY 1057 ATTCCTCAGCGGAGATCCAGGAGCCCGAGTGCAGGCACCTGTCCAGGAAGTTTCAACCGAG 1116
QY 1087 TGGTGTATGGCCCTGTCGGGTGCTCGTGTATGACCTGCTTCTGTGGACAGCTGTGAG 1146
Db |||||
QY 1117 TGGGCCCTACGGGCCCGGCTGCACTCTCTGCTGTGACAGCTGTCTGCTGATCGACATCGC 1176
QY 1147 GAGAACTCAGTGTGAGATCATTTGCTTTTCAATTGCA- - -AGAGCCCGCACCCGACCGGA 1203
Db |||||
QY 1177 AAGNACTCGTGTGGAGGTGATCGCTTACAGCAGCAGGAGACCCCTTATTCGCCACGAC 1236
QY 1204 ATGCTCTTTGGAGCCCTTGAACAAACTGCTGAGGCGGAATGGGA- - -TCTGCTCATC 1260
Db |||||
QY 1237 ATGCTCTTGGTGGAGCGCTGAAACCGACTCTCTGAGGACAAAGTGGGACAGATTCGTCAAG 1296
QY 1261 CCCAAGTCTCTTAAATCTCTGTGTAATCTGATCTACATGTTCATCTTCAACCGCTGTT 1320
Db |||||
QY 1297 CGCATCTTCTTCAACTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1356
QY 1321 GCCTTACCATCAGCTTACCTTGAAGAACGAGCGCCCTTACCTGAAAGCGGAGTTGGA 1380
Db |||||
QY 1357 GCCTTACTACAGGCC- - - - -CGTGGATGGCTTGGCTTCCCTTTAAGATGGGAAAACCTGGA 1410
QY 1381 AACTCCATGTGCTGAGCGGCCACATCTTATCTCTGCTAGGGGGGATCTTACCTCTCTG 1440

Db |||||
QY 1411 GACTATTTCCGAGTTACTGAGAGATCTGTCTGTGTGTAGGAGGATCTACTTCTTTTTC 1470
QY 1441 GGCAGCTGTGTTACTTCTGCGGCGGCCACGTGTTCATCTCTGATCTCGTTATGACAGC 1500
Db |||||
QY 1471 CGAGGATTCAGTATTTTCTGCGAGGCGGCCGTGATGAAGACCCCTGTTTGTGACAGC 1530
QY 1501 TACTTTGAAATCCCTTCTTCTGTTCCAGGCCCTGCTCAGTGGTGTCCAGGTGCTGTGT 1560
Db |||||
QY 1531 TACAGTGAATGCTTTTCTTCTGAGTCACTGTTTCTGCTGGCCACCGTGGTGTGTAC 1590
QY 1561 TTTCTGGCCATTCGAGTGGTACTTCCCTGCTGTGTGTGCTGCTGGTGTGCTGGTGTG 1620
Db |||||
QY 1591 TTTAGCCACCTCAAGGAGTATGTGGCTTCCATGTGTAATCTCCCTGGCTTGGGCTGAC 1650
QY 1621 AACCTGCTTACTATACAGTGGCTTCCAGGACACAGGCACTTACAGTGTATGATCAG 1680
Db |||||
QY 1651 AACATGCTTACTACACCCCGGTTTCCAGCAGATGGGCATCTATGCGCTCATGATAG 1710
QY 1681 AAGTCTATCTTGGCGGACCTGCTGCTGCTTCTCTGATCTTACTTACTTCTTCTTCTG 1740
Db |||||
QY 1711 AAGATGATCTGAGAGACCTGTGCGGTTTCAATGTTGCTTACATCTGCTTCTTGTTCGG 1770
QY 1741 TTGCTGTAGCCCTTGTGAGCCTTGAGCCAGGAGCTTTGGCGCCCGGAAAGCTTCTTACAG 1800
Db |||||
QY 1771 TTTTCCACAGCGGTGTGAGCGCTGATTTGAAGACGGAAGAAATGACTCCCTGCTGCTGAG 1830
QY 1801 CCCAATGCCACAGATCAGTGCAGCCCATGAGGGGACAGGAGGACAGGGGCAACGGGGCC 1860
Db |||||
QY 1831 TCCAGCTC- - - - -GCACAGGTGGGGGGCTGCTGCTGAGGCCCCCGGATAGC 1878
QY 1861 CAGTACAGGGGTATTCCTGGAAGCCTCTTGGAGCTTTCAAATTCACCATCGGATGGCC 1920
Db |||||
QY 1879 TCCTACAAAGCCTGTACTTCCACTGCTGAGAGCTGTTCAAGTTTCAACATCGGATGGCC 1938
QY 1921 GAGTGGCTTCCAGGAGCAGCTGCACTTCCGCGGCAATGGTGTGCTGCTGCTGCTGCTG 1980
Db |||||
QY 1939 GACCTGAGTTCACTGAGAACTATGACTTCAAGGCTGCTTCTTCACTATCTGCTGCTGCTG 1998
QY 1981 TAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2040
Db |||||
QY 1999 TATGTAAATCTCACTTCACTTCTGCTCAACATGCTGCTGCTGCTGCTGCTGCTGCTG 2058
QY 2041 GTCAACAGTGTGCGCACTGAGCAGCTGAGGATCTGGAAGCTGCAAGAAAGCCATCTGCTC 2100
Db |||||
QY 2059 GTCAACAGATCGCAGGAGACAGAAATCTGGAAGCTGCAAGAGCCATCAACATC 2118
QY 2101 CTGAGATGAGAAATGCTTATTTGTTGTCAGGAAGAAAG- - -CAGCGGGCAGGTGTGATG 2157
Db |||||
QY 2119 CTGGAACAGGAGAGAGCTTCTTAAAGTGCATGAGGAAGGCTTTCCTGCTCAGGCAAGCTG 2178
QY 2158 CTGACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGGCTGCTGCTGCTGCTGCTG 2217
Db |||||
QY 2179 CTGAGGTGGGTGATCACACCTGATGGCAAGGACGACTACCGGTGCTGCTTCAAGGTGGAC 2238
QY 2218 GAGTGAATGGGCTTCACTGGGAGCAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2271
Db |||||
QY 2239 GAGGTGAATGGACCACTGGAACACCAACCTGAGGATCATCAACGAAGACCCG 2292

RESULT 3

US-11-076-431-3
; Sequence 3, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCES: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570

PRIOR FILING DATE: 2004-03-09
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 2520
TYPE: DNA
ORGANISM: Homo Sapiens
NAME/KEY: variation
LOCATION: (0)...(0)
OTHER INFORMATION: Variant Y5111C
US-11-076-431-3

Query Match 26.7%; Score 659.2; DB 12; Length 2520;

Best Local Similarity 61.0%; Pred. No. 4.3e-163;

Matches 1205; Conservative 0; Mismatches 733; Indels 36; Gaps 7;

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QY 376 CTTCAGAGTACCTGAGCAGACCCAGCACTACCTCACCGACTCGGAATACACAGAGGGC 435
D 397 CTGCTGCTCTTCTCGAAGAGAGCAAGACACTCACAGAACAGAGTTCAAAGACCTT 456
QY 436 TCCACAGTAAAGCTGCTGATGAAGGCTGTGTGAACCTTAAGGACGGAGTCAATGCC 495
D 457 GAGACGGGAAGACCTGTCTGCTGAAAGCCATGCTCAACCTGCACGAGGACAGAACACC 516
QY 496 TGAATTCGCACCTGTCGAGATGCAAGGAGACTCTGGGAATCTCAGCCCCCTGGTAAT 555
D 517 ACCATCCCCCTGCTCTGGAGATCGCGCGCAAAACGACAGCCCTGAAGGAGCTTGTCAAC 576
QY 556 GCCCAGTGCACAGTACTTACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAAG 615
D 577 GCCAGTACACGACAGCTACTACAGGGCCACAGACACTGCACATCGCATCGCAGAGA 636
QY 616 AGGAGTCTGAGTGTGTGAAGCTCTCGTGTGAGAAATGGGGCAATGTGCATGCCCGGCC 675
D 637 CGCAACATGGCCCTGTGTGACCTCTCTGTGGAGAACGGACAGACGTCCAGGCTGCGGCC 696
QY 676 TGGCGCGCTTCTTCAGAAAGGGCCAAG---GACCTGCTTTTATTTGGGTGAGCTACCC 732
D 697 CATGGGACTTCTTTAAGAAACCAAAAGGGCGCTGGAATTTACTTTCTGGTGAATGCC 756
QY 733 CTCTCTTTGGCGCTGACCAAGCAGTGGATGTGTGAAGTACCTCTCGGAGAACCCA 792
D 757 CTGTCTCTGGCGCTGACCAACAGCTGGGATGTGAAGTCTCTGCTGCAAGATCTC 816
QY 793 CACGAGCCCGCAGCTGCGAGGCCACTGACTCCAGGGCAACACAGTCTCTGCAATGCCCTA 852
D 817 TGGCAGACGGCCGACATCAGCGCCAGGACTCGGTGGGCAACACGCTGCTGCAAGCCCTG 876
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D 877 GTGAGGTGGCCGACAAACAGCGCCGCAACACCAAGTTTGTGACGAGCATGTACAATGAG 936
QY 913 CTCTCTCAAGCTGGGGCCGCTCTGCTGCTACCGTGCAGCTTGAGGACATCCCGCAACTG 972
D 937 ATTTCTGATGTGGGGCCCAACTGCACTCCGACGCTGAAGCTGGAGGAGCTCACCAACAG 996
QY 973 CAGGATCTCAGCTCTGAAAGCTGGCGCCAAAGGAGGGCAAGATTCGAGATTTTCAGGCAC 1032
D 997 AAGGGAATGACCGCTGGCTCTGCGAGCTGGGACCGGGAAGATCGGGGCTTTGGCCTAT 1056
QY 1033 ATCTCGAGCGGGAGTT-----TTTAGGACTGAGCCACCTTTTCCGAAAGTTTCAACGAG 1086
D 1057 ATTTCCAGCGGGAGATCCAGGAGCCCGAGTGCAGGCACTGTCTCAGGAAGTTTCAACGAG 1116
QY 1087 TGGTGTATGGGCTGTGCTGGGTGTCTGTATGACCTGGCTTCTGTGGACAGCTGTGAG 1146
D 1117 TGGGCTTACGGGCCCGGTGACTCTCTGCTGTACAGCTGTCTGCTGCACTCGACACTGCGAG 1176
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QY 1147 GAGAACTCAGTCTGAGATCATTTGCTTTTCAATTGCA---AGAGCCCGCACCACACCGA 1203
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QY 1204 ATGGTCTGTTTGGAGCCCTGAACAACTGCTGCAGCGCAAAATGGGA---TCTGCTCATC 1260
D 1237 ATGCTCTTGGTGGAGCCGCTGAACCGACTCTCTGCAGACAAGTGGACAGATTCGCTCAG 1296
QY 1261 CCCAAGTTCTTCTTAAACTTCTGTGTATCTGATCTACATGTTCAATCTTCAACCGTGT 1320
D 1297 CGCATCTTCTACTTCAACTTCTGCTGTACTGCTGTATCATGATCATCTTCAACATGGCT 1356
QY 1321 GCTTACCATCAGCTTACCCTGAAGAGAGCGGCCCTTCACTGAAAGGGAGGTTGGA 1380
D 1357 GCTTACTACAGGCC-----CGTGGATGGCTTTCCTTCCCTTTAAGATGGAAGAACTGGA 1410
QY 1381 AACTCATGCTGCTGACGGGCCACATCTCTTATCTCTAGGGGGGATCTACCTCTCTCGTG 1440
D 1411 GACTATTTCCGAGTTACTGGAGATCTCTGTCTGTGTTAGGAGGATCTACTTCTTTTTC 1470
QY 1441 GGCCAGCTGTGCTACTTCTGGGGCGCCACGTGTTTCACTCTGGATCTCTGTTATAGACGC 1500
D 1471 CGAGGGATTCAGTATTTCTGAGAGCGCGCTGATGAAGACCTGTTTGTGGACAGC 1530
QY 1501 TACTTTGAAATCTCTTCTGTTTCAGGGCCCTGCTCACAGTGTGTCCAGGTGCTGTGT 1560
D 1531 TGCAGTGAGATGTTTCTTCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1590
QY 1561 TTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
D 1591 TTGAGCACTCAAGAGATGTTGGTTCATGTTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 1650
QY 1621 AACCTCTTTTACTATACAGTGTCTTCAGACACAGGATCTACAGTGTGATGATCCAG 1680
D 1651 AACATGCTCTACTACACCGCGCTTTCCAGCAGATGGGATCTATGCGCTCATGATAGAG 1710
QY 1681 AAGTCACTCTGCGGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1740
D 1711 AAGATGATCTGAGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1770
QY 1741 TTGCTGTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1800
D 1771 TTTTCCACAGCGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1830
QY 1801 CCCAATGCCACAGTCACTGCTGACGCCATGAGAGGGAAGAGGACAGAGGACAGCGGGCC 1860
D 1831 TCCACGCTC-----GCACAGTGGCGGGGCTGCTGCTGAGGCGCCCGGATAGC 1878
QY 1861 CAGTACAGGGGTATCTGGAAGCTCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGC 1920
D 1879 TCTTACAAACAGCCTGTACTCCACCTGCTGGAGCTGTTCAGTTCACCATCGGCATGGGC 1938
QY 1921 GAGTGGCTTCCAGAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1980
D 1939 GACTGGAGTTCTAGAGAACTATGACTTCAAGCTGTCTTCAATCATCTCTGCTGCTGCTG 1998
QY 1981 TAGCTGCTGCTCACTACATCTCTGCTCAACATGCTCATCTGCTGCTGCTGCTGCTGCTGCTG 2040
D 1999 TATGTAATCTCACTACATCTCTGCTCAACATGCTCATCTGCTGCTGCTGCTGCTGCTGCTG 2058
QY 2041 GTCAACAGTGTGCCCATGACAGCTGAGCATCTGGAAGCTGCAAGAGCCATCTCTGCTC 2100
D 2059 GTCAACAGATCCACAGGAGAGCAAGACATCTGGAAGCTGCAAGAGCCATCAACCATC 2118
QY 2101 CTGAGATGAGAGTGGCTATTTGGTGTGAGGAAGAG---CAGCGGGCAGGTGTGATG 2157
D 2119 CTGACACGAGAGAGCTTCTTAAAGTGAATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2178
QY 2158 CTGACCGTTGGCTAAGCCAGATGGCAGCCCGGATGAGCGCTGCTGCTGCTGCTGCTGCTG 2217
D 2179 CTGAGGTGGGTACACACCTGATGGCAAGGACGACTACCGGTGGTGTCTTTCAGGGTGGAC 2238
QY 2218 GAGGTGAATGGGCTTTCATGGGAGCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2271
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Db 2239 GAGGTGACTGGACACCTGGAAACACCAACCTGGGGCATCATCAACGAAGACCCG 2292
RESULT 4
US-11-005-216-1
; Sequence 1, Application US/11005216
; Publication No. US20050287633A1
; GENERAL INFORMATION:
; APPLICANT: Mcintyre, Peter
; APPLICANT: James, Iain Fraser
; TITLE OF INVENTION: Human Vanilloid Receptor
; FILE REFERENCE: 4-30875A
; CURRENT APPLICATION NUMBER: US/11/005,216
; CURRENT FILING DATE: 2004-12-06
; PRIOR APPLICATION NUMBER: US/09/533,220
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1
; PRIOR FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 1.30
; SEQ ID NO 1
; LENGTH: 3463
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (359)..(2875)
US-11-005-216-1
Query Match 26.7%; Score 659.2; DB 12; Length 3463;
Best Local Similarity 61.0%; Pred. No. 4.6e-163;
Matches 1205; Conservative 0; Mismatches 733; Indels 36; Gaps 7;
Qy 316 TTTCACGAGATCGGCTCTTCATGCGGTCTCCCGGGGTGTCCTCCGAGGATCTGGCTGGA 375
Db 695 TATGATCGCAGGAGTATCTTTGAAGCCGTGTGCTCAGAAATRACTGCCAGGATCTGGAGAGC 754
Qy 376 CTTCAGAGTACCTGAGCAACACGACGAACTGACCTCCAGGACTCGGAATACACAGAGGGC 435
Db 755 CTGCTGCTCTTCCTGAGAGAGCAAGAGACCTTCACAGAACACGAGTTCAAGACCCCT 814
Qy 436 TCCACAGGTAAAGCTGCTGATGAAGGCTGTGTGAACCTTTAAGGACGGAGTCAATGCC 495
Db 815 GAGACAGGAGACCTGTCTGCTGAAGCCATGTCTCACTGCGACGACGACAAACACC 874
Qy 496 TGCATTTGCACTGTGTCAGATCGACAGGAGTCTGGCAATCTCAGCCCCCTGGTAAAT 555
Db 875 ACCATCCCCCTGCTCTCTGGAGATCGCGCGCAACCGACAGCCCTGAAGGAGCTTGTCAAC 934
Qy 556 GCCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGACATCGGCATGGAAG 615
Db 935 GCCAGCTACACGGACAGTACTACAAGGGCCAGACAGCACTGCACTCGCCATCGAGAGA 994
Qy 616 AGGAGTCTGCACTGTGTGAAGCTCTCTGTGAGAAATGGGGCAATGTGCAATGCCCGGCC 675
Db 995 CGCAACATGGCCCTGTGTGACCTCTCTGTGTGAGAACGAGGACAGCTCCAGGCTGCGGCC 1054
Qy 676 TGGCGCCGCTTTCTCCAGAGAGGGCCAAG--GGACTTGTCTTTATTTTCGGTAGCTACCC 732
Db 1055 CATGGGACTTCTTTAAGAAAAACAAAGGGCGGCTGGATTCTACTTCTCGGTGAATCGCC 1114
Qy 733 CTCTCTTTGGCCGCTTGCAACAGCAGTGGATGTGTAGCTACCTCTCTGGAGAACCCA 792
Db 1115 CTGTCTCTGGCCGGTGCACCAACAGCTGGGCACTGTGAAGTTCTCTGCTGCAAGACTCC 1174
Qy 793 CACCAGCCCGCAGCTGACGGCCACTGACTCCAGGGCAACAGACTCTCTGCAATGCCCTA 852
Db 1175 TGGCAGACGGCCGACATCAGGCCCAAGGACTCGGTGGGCAACACGGTGTGACGCCCTG 1234
Qy 853 GTGATGATCTCGGCAACTCAGCTGAGAACATTCGACTGGTGACAGCATGTATGATGGG 912
Db 1235 GTGAGGTGGCCGACAAACACGGCCGACAAACAGAAAGTTTGTGACGAGCATGTACAATGAG 1294

Qy 913 CTCTCCAAGCTGGGGCCCGCTCTGCCCCTACCGTGCAGCTTGAGGACATCCGCAACCTG 972
Db 1295 ATTCTGATCTGGGGCCAAACTGCACCCGACGCTGAGCTGGAGAGCTCACCAACAAG 1354
Qy 973 CAGGATCTCAGCGCTCTGAAGCTGGCCGCAAGAGGGCAAGATCGAGATTTTCAGGCAC 1032
Db 1355 AAGGGAATGATCGCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGGTCTTGGCCCTAT 1414
Qy 1033 ATCTGCGAGCGGAGTT-----TTCAGGACTGAGCCACCTTTTCCGGAAGTTCCCGAG 1086
Db 1415 ATTCTCAGCGGGAGATCCAGGAGCCGAGGTGCGAGCACCTGTCCAGGAAGTTCCCGAG 1474
Qy 1087 TGGTGCTATGGGCTGTCCGGGTGCTGATGACCTGGCTCTGTGGACAGCTGTGAG 1146
Db 1475 TGGGCTTACGGGCCCGTGCACTCTCTGCTGTAAGACCTGTCTGCTGATCGACACTGCGAG 1534
Qy 1147 GAGAACTCAGTGTGGAGATCATTTGCCCTTTTCAATTGCA---AGAGCCCGCACCGACACCGA 1203
Db 1535 AAGAACTCGGTGTGGAGGTGATCGCTTACAGCAGCAGCAGAGACCCCTTAATCGCACGAC 1594
Qy 1204 ATGTCGTTTGGAGCCCTGAAACAAACTGCTGCGAGCGGAATGGGA---TCTGCTCATC 1260
Db 1595 ATGCTCTTGGTGGAGCCGCTGAACCCGACTCTCTGAGGACCAAGTGGGACAGATTGCTCAAG 1654
Qy 1261 CCCAAGTTCTTTTAAACTTCTCTGTGTAATCTGATCTACATGTTTTCATCTTCCACCGCTGT 1320
Db 1655 CGCATCTTCTACTTCAACTTCTCTGGTCTAGCTGCTGATGATGATCATCTTCCCATGGCT 1714
Qy 1321 GCCTACCATCAGCTACCTTGAAGAAGCAGCGCCGCTCACCTGAAAGCGAGGTTTGA 1380
Db 1715 GCCTACTACAGGCC-----CGTGGATGGCTTGCTCTCCCTTAAAGATGGAAGAACTGGA 1768
Qy 1381 AACTCCATGTCTGACGGGCCACATCTTATCTCTGTAGGGGGATCTACTCTCTCGTG 1440
Db 1769 GACTATTTCGAGTACTTGGAGAGATCTCTGTGTGTAGGAGAGTCTACTTCTTTTTC 1828
Qy 1441 GGCAGCTGTGTACTTCTGCGCGGCCACCTGTTCATCTGATCTGATCTCGTTCATAGACAGC 1500
Db 1829 CGAGGATTCAGTATTTCTGCGAGAGCGCGCTGATGAGACCTCTGTTGTGACAGC 1888
Qy 1501 TACTTTGAAATCTCTTCTGTTTCCAGGCCCTGTCTACAGTGTGTGCCAGGTCTGTGT 1560
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Qy 1561 TTCTGCGCATTCAGATGGTACTGCGCCCTGCTGTGTGCTGCGGTGTGCTGGGTGCTGGCTG 1620
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Qy 1621 AACCTGCTTTACTATACAGCTGGCTTCCAGCACACAGGCACTTACAGTGTCTATGATCCAG 1680
Db 2009 AACATGCTCTACTACACCCCGGTTTCCAGCAGATGGGCATCTATGCGCTCATGATAGAG 2068
Qy 1681 AAGGTCACTCTGGGGACCTGCTGCGCTTCTTCTGATCTACTTACTTCTCTTTTTCGGC 1740
Db 2069 AAGATGATCTGAGAGACCTGTGCGGTTTTCATGTTTGTCTACATCTGCTTCTTCTGGG 2128
Qy 1741 TTGCTGTAGCCCTGTGTGAGCTGAGCAGGAGCTTTGGCGCCCGCCGAAGCTCTCTACAGGC 1800
Db 2129 TTTTTCACACGGGTGTGTGAGCTGATTTGAAGACGGGAAGAAATGACTCCCTGCGCTCTGAG 2188
Qy 1801 CCCAATGCCACAGATCAGTGCAGGCCCATTCGAGGGACAGGAGGAGGGCAACGGGGCC 1860
Db 2189 TCCAGTCT-----GCAAGGTGGGGGGCTGCTGCTGAGGCCCGCCGATAGC 2236
Qy 1861 CAGTACAGGGGTATCTTGGAAAGCTCTCTTGGAGCTCTTCAAATTTCAACATCGGATGGGC 1920
Db 2237 TCCTACACAGACCTGTACTCCACTGCTGAGAGCTGTTCAAGTTTCAACATCGGATGGGC 2296
Qy 1921 GAGTGGCTTTCAGGAGCAGCTGCACTTCCGCGGCAATGTGTGTGTGCTGTGCTGTGCTGCC 1980
Db 2297 GACTGGAGTTCTATGAGAACTATGACTTCAAGGCTGTCTTCAATCTCATCTCTGCTGCTGCC 2356

Qy	1981	TACGTGCTGCTACCTTACCTCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACC	2040
Db	2357	TATGTAATTCTTACCTACATCTCTCTGCTCAACATGCTCATCGCCCTCATGCGGTGAGACT	2416
Qy	2041	GTCAACAGTGTGCGCCATGTACAGCTGAGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTC	2100
Db	2417	GTCNACCAAGATTCGCACAGGAGAGCAGAAATCTGGAAGCTGCAGAGGCCATCCACATC	2476
Qy	2101	CTGGAGATGGAGAAATGGCTTATTGGTGTGCAGGAAGAAG---CAGCGGGCAGGTGTGATG	2157
Db	2477	CTGGACACGAGGAAGAGCTTCTTAAGTGCTATGAGGAAGGCTTCCGCTCAGGCGAAGCTG	2536
Qy	2158	CTGACCGTGTGGCATTAAGCCAGATGGCAGCCCGGATCAGCGCTGTGGTCTTCACGGTGGAG	2217
Db	2537	CTGCACTGGGGTACACACCTGATGGCAGGACACTACCGGTGGTGGCTTCACGGGTGGAC	2596
Qy	2218	GAGGTGAATCGGGCTTCATGGGAGCAGACGCTGCCTTACGCTGTGTGAGGACCCG	2271
Db	2597	GAGGTGAATCTGGACCACTGGAACACCAAGCTGGGGCATCATCAACGAAGACCCG	2650

RESULTS

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US-11-076-431-1
; Sequence 1, Application US/11076431
; Publication NO. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: variation
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant Y511A
US-11-076-431-1

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Query Match	26.6%	Score 657.6;	DB 12;	Length 2520;
Best Local Similarity	61.0%;	Pred. No. 1.le-162;		
Matches 1204;	Conservative 0;	Mismatches 734;	Indels 36;	Gaps 7;

Qy	316	TTTGAACGAGATCGGCTCTTCAATGCGGTCTCCGGGGTGTCCCGGAGGATCTGGCTGGA	375
Db	337	TATGATCGCAGGAGTATCTTTGAAGCGGTGTCTCAGAAATACTGCCAGGATCTGGAGAGC	396
Qy	376	CTTCCAGAGTACCTGAGCAGACAGCAAGTACTCTCACCGACTCGGGAATACACAGAGGC	435
Db	397	CTGTGCTCTTCTTCGAGNAGAGCAAGAGCCCTCTCAGACAAACGAGTGTCAAGACCCCT	456
Qy	436	TCCACAGTAAAGCTGCCTGATGAAGGCTGTGCTGAACCTTTAAGGACGGAGTCAATGCC	495
Db	457	GAGACAGGAGAGACTCTGTCTGTCAAGCCATGTCTCAACTGTCACGACGGACAGAACACC	516
Qy	496	TGCATTCTGCCACTGTCTGCAGATCGACAGGGAGCTCTGGCAATCTCAGCCCTGGTAAAT	555
Db	517	ACCATCCCCCTGTCTCTGGAGATCGCCGGCCAAACGGACAGCCTGGAAGGAGCTTGTCAAC	576
Qy	556	GCCCAGTGCACAGATGACTATTACCGAGGGCCACACGCGCTCTGCAACATCGCCATTGAGAAG	615
Db	577	GCCAGCTACACGGACAGCTACTCAAGGGCCAGACAGCACTGCACATCGCCATCGAGAGA	636
Qy	616	AGGAGTCTGCAGTGTGTGAAGCTCTCTGGTGGAGAAATGGGGCCAATGTGCATATGCCGGGCC	675

Db	637	CGCAACATG	GCCCTGTGTGACCCCTCTCTGGTGGAGAACGGAGCAGACGTCCAGGCTGCGGCC	696
Qy	676	TGGGGCGCTTCTTCCAGAAAGGGCCAAAG---	GGACTTGTCTTTATTTTGGGTGAGCTACCC	732
Db	697	CATGGGAC	TTCTTTAAGAAAAACAAAGGGCGCCTGGATTCTTACTTTCGGTGAATGCCCC	756
Qy	733	CTCTCTTTGGCCGCTTGCACCAAGCAGTGGGATGTGGTAAGCTACCTCTCTGGAGAACCCCA	792	
Db	757	CTGTCCCTGGCCGCTGCACCAACCAAGCTGGGCATCGTGAAGTCTCTGCTGCAGAACTCC	816	
Qy	793	CACGAGCCCGCAGCCTGCAGGCCCATGCACTCCAGGGCCACACAGTCTCTGCATGCCCTA	852	
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Qy	853	GTGATGATCTCGACAACTCAGCTGAGAACATTTGCACCTGGTGCACAGCATGTATGATGGG	912	
Db	877	GTGGAGTGGCCGACAAACACGGCCGACACACGAAGTTTGTGACGAGCATGTACATGAG	936	
Qy	913	CTCCTCCAAAGCTGGGGCCCGCCTCTCCCTTACCGTGCAGCTTGAGGACATCCCGAACCTG	972	
Db	937	ATTCTGATGTGGGGCCAAACTGCACCCGACCTGAAAGCTGGAGGAGCTCACCAACAG	996	
Qy	973	CAGGATCTACGCCCTCTGAAGCTGGCCGCCCAAGGAGGCCAAGATCGAGATTTTCAGGCAC	1032	
Db	997	AAGGGAAATGACCGCGCTGGCTCTGGCAGCTGGGACCGGGAAAGATCGGGGTCTTTGGGCTAT	1056	
Qy	1033	ATCTCGAGCGGGAGTT-----	TTCAGGACTCAGCACCTCTTCCGNAAGTTTCACCGAG	1086
Db	1057	ATTCTCGAGCGGAGATCCAGGAGCCGAGTGCAGGCACCTGTCCAGGAAGTTTCCCGAG	1116	
Qy	1087	TGTTGCTATGGGCTGTTCGGGTGTCCGTGTATGACTTGGCTTCTGTGGACAGCTGTGAG	1146	
Db	1117	TGGGCTTACGGGCCCGTGCACTCCTCGCTGTACGACCTGTCTGTGCATCGACACCTGCGAG	1176	
Qy	1147	GAGAACTCAGTGTGAGATCATTGGCTTTTCATTGCA---	AGAGCCCGCACCCAGACCCGA	1203
Db	1177	AAGAACTCGGTGTGGAGGTGATCGCGCTACAGCAGCAGCGAGACCCCTTAATCGCCACGAC	1236	
Qy	1204	ATGTTGTTTGGAGCCCTGAAACAAACTGCTCGAGCGAAATGGGA---	TCTGTCTATC	1260
Db	1237	ATGCTCTTGTGGAGCGCTGAACCGACTCCTCGAGACAAAGTGGAGACAGATTCGTCAAG	1296	
Qy	1261	CCCAAGTTCTTTAAACTTCTGTGTAACTGTGATCTACATGTTCATCTTTCACCGCTGTT	1320	
Db	1297	CGCATCTTCTACTTCAACTTCTCTGGTCTACTGCGCTGTACATGATCATCTTCCACCATGGCT	1356	
Qy	1321	GCCTACCATCAGCTTACCCTGAAGAGCAGCCGCCCTCACCTGAAGCGGAGTTGGA	1380	
Db	1357	GCCTACTACAGGCC-----	CGTGGATGGCTTGCCCTCCCTTTAAGATGGNAAAACTGGA	1410
Qy	1381	AACTCCCATGTGTGAGCGGCCACATCTTATCTGTCTAGGGGGGATCTTACCTCTCTGCTG	1440	
Db	1411	GACTATTCCGAGTTACTGGAGAGATCTCTGTCTGTGTAGGAGAGTCTACTTCTTTTTC	1470	
Qy	1441	GGCCAGCTGTGTACTTCTGGCGCGCCACGTTTTCATCTGGATCTCGTTTCATAGACAGC	1500	
Db	1471	CGAGGATTCAGTATTTCTCTGCAGAGCGGCCCGCTCGATGAAGACCCCTGTTTGTGGACAGC	1530	
Qy	1501	TACTTTGAAATCTCTTCTGTTCAGGGCCCTGCTCACAGTGTGTGCCAGGTGCTGTGT	1560	
Db	1531	GCCAGTGAGATGTCTTTCTTTCTGCAGTCACTGTTTCATGCTGGCCACCGGTGGTGTATC	1590	
Qy	1561	TTCTCGGCCCATCGAGTGTACCTGCCCCCTGTGTGTCTGCGCTGTGTCTGGGCTGGCTG	1620	
Db	1591	TTCAGCCACCTCAAGAGATATGTGGCTTCCATGGTATTTCTCCCTGGCCTTGGGCTGGACC	1650	
Qy	1621	AACCTGCTTTATATACAGTGGCTTCCAGCACACAGGCATCTACAGTGTCAATGATCCAG	1680	
Db	1651	AACATGCTCTACTACACCGCGGTTTCCAGCAGATGGGCATCTATGCGCTCATGATAGAG	1710	
Qy	1681	AAGTTCATCTCGGGAGCTGTGCGGTTCTCTGATCTACTACTAGTCTCTCTTTTCGGC	1740	
Db	1711	AAGATGATCTCGAGACCTGTGCGGTTTTCATGTTTGTGTACATCGTCTTCTTTTTCGGG	1770	

Query Match 3.2%; Score 77.8; DB 8; Length 1674;
Best Local Similarity 53.9%; Pred. No. 2.4e-10;
Matches 160; Conservative 0; Mismatches 137; Indels 0; Gaps 0;

QY 1474 TTCAATGGATCTGTTATAGACAGTACTTTGAAATCTCTTCTGTTCCAGGCCCTG 1533
DB TTCTTTGGACAGACCATCTCTGGGGGCCATTCATATGTCATCATCATCTATGCTTTC 798

QY 1534 CTCACAGTGTGTCACAGGTGCTGTTTCTCGGCCCATCGAGTGTACCTGCCCCGT 1593
DB ATGGTGTGTGACCATGATGTCGGCTCATCAGTGCACAGGGAGGTGTACCCATG 858

QY 1594 GTGTCTGCGTGTGCTGGGCTGGCTGAACCTCTTTACTATATACAGTGTGCTTCCAGCAC 1653
DB TCCCTTTGCACTCTGCTGGGCTGGTGAAGTTCATGTACTTCCGCCGAGGATTCAGATG 918

QY 1654 ACAGGANTCTACAGTGTATGATCCAGAGGTATCTCTGCGGGACCTGTGCGCTTCTT 1713
DB CTAGGGCCCTTCCACCATCATGATTCAGAGATGATTTTGGCGACCTGATGCGATTTCTGC 978

QY 1714 CTGATCTACTTACTTCTCTTTTTCGCTTCGCTGTAGCCCTGTGAGCCCTGAGCCAG 1770
DB TGGCTGATGCTGTGGTTCATCTCTGGGCTTTGCTTCAGCCCTTCTATATCATCTTCCAG 1035

RESULT 9

US-10-511-538-100
; Sequence 100, Application US/10511538
; Publication No. US20060026700A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies, Inc
; TITLE OF INVENTION: TISSUE SPECIFIC GENES AND GENE CLUSTERS
; FILE REFERENCE: 16U 200 PCT
; CURRENT APPLICATION NUMBER: US/10/511,538
; PRIOR FILING DATE: 2004-10-18
; PRIOR APPLICATION NUMBER: US 60/372,669
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US 60/411,882
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US 60/424,336
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US 60/374,823
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 60/376,558
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: US 60/381,366
; PRIOR FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 60/403,648
; PRIOR FILING DATE: 2002-08-16
; NUMBER OF SEQ ID NOS: 344
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 2953
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (350)..(2536)
; OTHER INFORMATION:
US-10-511-538-100

Query Match 3.0%; Score 75; DB 7; Length 2953;
Best Local Similarity 44.8%; Pred. No. 1.5e-09;
Matches 560; Conservative 0; Mismatches 640; Indels 51; Gaps 5;

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QY 607 ATTGAGAAAGGAGTCTGCAAGTGTGCAAGCTCTCTGGTGGAGAAATGGGGCCAAATGTGCAT 666
DB GTTGTGAACAGAAATGTGAACCTGTGGTGTGCTGCTCTGCCCGAGGCCAGTGTCTCT 781

QY 667 GCCCGGGCTCTGGCGCGCTTCTTCCAGAGGGCCAGGAGCTTGTCTTTTATTTTCGGTGAG 726
DB GCCAGAGCCACAGGACACTGCTTTCGCGTAGTCCCGCAACCTCATCTACTTTGGGGAG 841

QY 727 CTACCCCTCTCTTTGGCGGCTTGCACCAAGCAGTGGGATGTGGTAAGCTACCTCTCTGGAG 786
DB CACCCCTTGTCTCTTGTCTGTGTGAACAGCGAGGAGATCTGTGCGGCTGTCTCATTTGAG 901

QY 787 AACCACACACAGCCCGCAGCCTGAGGCCACTGTACTCCAGGGCAACACAGTCTCTGCAAT 846
DB -----CATGGAGCTGACATCAGGGCCAGGACTCTCTGGGAAACACAGTATTACAC 952

QY 847 GGCCTAGTGATGATCTCGGACAACTCAGCTGAGAAACATTCACATGGTGAACAGCATGTAT 906
DB ATCTCTCATCTCTCAGCCCAACAAACCTTTGCTG-----CCAGATGTATC 997

QY 907 GATGGGCTCTCAAGCTGGGGCCGCTCTGCTCCCTACCGTGCAGCTTGAAGNACATCCGC 966
DB AACCTGCTGCTGTCTCTACGATGGGGACCACTGCAGGCCCTTGGACCTTGTGCC 1057

QY 967 AACCTGCAGGATCTCAGCGCTCTGAAGCTGGCGCCCAAGCAGGCGCAAGATCGAGATTTTC 1026
DB AATCACCAGGGTCTCACCCTTCAAGCTGGCTGGAGTGGAGGTAACTGCTGTGATGTTTC 1117

QY 1027 AGGCACAT-----CCTGCAGCGGGAGTCTTTCAGGACTGAGCCACCTT 1068
DB CAGCACCTGATCAGAAAGCGGAGGCACATCCAGTGGACGTATGGACCCCTGACCTCCATT 1177

QY 1069 TCCGAAAGTTTCCAGAGTGGTGTATGGGCCCTGTCCGGGTGTGGTGTATGATGACC---TG 1125
DB CTCTACGACCTCACAGATCGACTCTCTGGGAGAGGAGCTGTCTCTCTCTGGAGCTGTG 1237

QY 1126 GCTTCTGTGACAGCTGTGAGGAGAACTCAGTGTGAGATCATTTGCCCTTTCATTGCAAG 1185
DB GTCTCTCTGTATAAAGAGAGGCTGCGCAAAATCTGGAAACAGACCCAGTGAAGGAGCTG 1297

QY 1186 AGCCCGCACCGACACCGAATGGTGTGTTTGGAGCCCTTGAACAAACTGTGTCAGGCGAAA 1245
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QY 1246 TGGGATCTGCTCATCCCCAAGTTCTTCTTAACTTCTGTGTAACTGTATCTATCATGTTTC 1305
DB CTGCTCTACATGATCTGCTTTTACCAGTGTGCTGTACCGCCCCCTTAAAGTTTCTGTGGT 1417

QY 1306 ATCTTCCACGCTGTGCTCTACCATCAGCTTACCCTGAAGAAGCAGGCGCCCTCACCTG 1365
DB GGCAACCGCACTCATTTCTCGAGACATCACATCTCTCCAGCAAAACTACTACAGGAGGCC 1477

QY 1366 AAAGCGGAGTTGGAAATCTCCATGTGTGACGGGCCACATCTCTTATCTGTCTAGGGGGG 1425
DB TATGAGACACGTGAAGATATCATCAGGCTGGTGGGGAGCTGGTGAAGCATCGTTGGGGCT 1537

QY 1426 ATCTACCTCTCTGTTGGGCGAGCTGTGGTACTTCTGGCGGGCCACGCTGTTCATCT----- 1480
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QY 1481 -GGATCTCTCATAGACAGTACTTTGAAATCTCTCTCTGTTCAGGCGCCCTGCACACA 1539
DB GGAAAGACGATTTCTTGGGGGGCCATTCATGTATCATCATCATCATATGCTCTCTCTGGTG 1657

QY 1540 GTGGTGTCCAGGTGTGTGTTTCTCTGGCCATCGAGTGGTGTACTGCGCCCTGTGTGTCT 1599
DB CTGTGTACCATGTGTGATGCGGCTCACCAACACAAATGGGAGGTGGTGGCCATGTCTCTTT 1717

QY 1600 GCGCTGGTGGTGGCTGGCTGAACCTGCTTTACTATACAGTGGCTTCCAGCACACAGGC 1659
DB GCCCTGGTGGTGGCTGGTGCAGTGTATGATTTTCACTCGAGGATTTCCAGATGCTGGGT 1777

QY 1660 ATCTACAGTGTATGATCCAGAGGTCTCTCGGGAGCTGTCTGGGCTTCTCTCTCTGATC 1719
DB CCCTTCAACCATCATGATCCAGAAAGATGATTTTGGAGACCTAATGGGTTCTCTGCTGCTG 1837

! ORGANISM: Bovine 19866881552909
US-10-750-185-35754

Query Match 2.1%; Score 52.6; DB 8; Length 914;
Best Local Similarity 59.8%; Pred. No. 0.00088;
Matches 107; Conservative 0; Mismatches 59; Indels 3; Gaps 1;
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Db 177 GTGGCCCTCACCTCTCTTTGCTTCCCTTAGAATCGCCATGACATGCTTTGGTGGAGCCG 236
Qy 1222 CTGAACAACTGCTGAGCGGCAATGGAT---CTGCTCATCCCCCAAGTTCTTCTTAAAC 1278
Db 237 CTGAACCGCTTCTGCGAGGACAAGTGGGACAGATTGTCAAGCGCATCTTCTACTTCAAC 296
Qy 1279 TTCCTGTGTAATCTGATCTACATGTTCACTTTCACCGCTGTTGCCTACCATCAGCCTAC 1337
Db 297 TTCTTCGCTACTGCTTGTATATGATCATCTTACACAGGTGCGCCTACTACAGACCTGC 355

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Job time : 707 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: February 19, 2006, 07:51:42 ; Search time 1959 Seconds
(without alignments)
10422.202 Million cell updates/sec

Title: US-09-445-614B-1
Perfect score: 2469
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134589005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
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6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2462.2	99.7	2809	8 US-10-757-262-25	Sequence 25, Appl
2	2462.2	99.7	2809	10 US-11-013-090-4	Sequence 4, Appl
3	2455.8	99.5	2825	6 US-10-168-651-30	Sequence 30, Appl
4	2447.4	99.1	2867	6 US-10-284-237-1401	Sequence 1401, Ap
5	2434.6	98.2	2805	5 US-10-137-316-1	Sequence 1, Appl
6	2378.4	96.3	2380	3 US-09-978-303-35	Sequence 35, Appl
7	2378.4	96.3	2380	9 US-10-915-017-35	Sequence 35, Appl
8	2293.4	92.9	2295	6 US-10-342-844-67	Sequence 67, Appl
9	2292	92.8	2292	10 US-11-013-090-6	Sequence 6, Appl
10	2283.2	91.7	2295	3 US-10-342-844-69	Sequence 69, Appl
11	2259.2	91.5	2779	3 US-09-809-391-191	Sequence 191, App
12	2259.2	91.5	2779	3 US-09-882-171-191	Sequence 191, App
13	2259.2	91.5	2779	6 US-10-164-861-191	Sequence 191, App
14	2061.8	83.5	2860	3 US-09-809-391-314	Sequence 314, App
15	2061.8	83.5	2860	3 US-09-882-171-314	Sequence 314, App
16	2061.8	83.5	2860	6 US-10-164-861-314	Sequence 314, App
17	1933.4	78.3	1935	6 US-10-342-844-43	Sequence 43, Appl
18	1572	63.7	2824	9 US-10-764-420-2281	Sequence 2281, Ap
19	1535.8	62.2	2271	6 US-10-342-844-51	Sequence 51, Appl
20	1529.4	61.9	2271	6 US-10-342-844-85	Sequence 85, Appl
21	1522.4	61.7	2736	3 US-09-978-303-3	Sequence 3, Appl
22	1522.4	61.7	2736	9 US-10-915-017-3	Sequence 3, Appl
23	1459.6	59.1	2286	6 US-10-342-844-45	Sequence 45, Appl

RESULT 1
US-10-757-262-25
; Sequence 25, Application US/10757262
; Publication No. US20040197825A1
; GENERAL INFORMATION:
; APPLICANT: Karicheti, Venkateswarlu
; APPLICANT: Siches-Santiago, Inmaculada
; APPLICANT: Eliasof, Scott D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 44390, 54181, 211, 5687, 884,
; TITLE OF INVENTION: 1405, 636, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
; TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 44373, 51164,
; TITLE OF INVENTION: 53010, 16852, 1587, 2207, 22245, 2387, 52908, 69112, 14990,
; TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 8675,
; TITLE OF INVENTION: 32720, 4809, 14303, 16816, 17827, 32620, 577, 619, 1423,
; TITLE OF INVENTION: 2543, 15402, 16209, 16386, 21165, 30911, 41897, 1643,
; TITLE OF INVENTION: 2543, 9626, 13231, 32409, 84260, 2882, 8203, 32678 OR
; FILE REFERENCE: MEI03-007P1RNMNM
; CURRENT APPLICATION NUMBER: US/10757,262
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,318
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: US 60/444,783
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/457,901
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/468,775
; PRIOR FILING DATE: 2003-05-08
; PRIOR APPLICATION NUMBER: US 60/471,614
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 60/478,742
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: US 60/488,529
; PRIOR FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/491,156
; PRIOR FILING DATE: 2003-07-30
; PRIOR APPLICATION NUMBER: US 60/499,594
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US 60/506,332
; PRIOR FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 136
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 2809
; TYPE: DNA

ALIGNMENTS

; ORGANISM: Homo sapiens									
; FEATURE:									
; NAME/KEY: CDS									
; LOCATION: (361)...(2655)									
US-10-757-262-25									
Query Match 99.7%; Score 2462.2; DB 8; Length 2809;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2464; Conservative 0; Mismatches 3; Indels 0; Gaps 0;									
QY	3	CGAGGCGAGCGCGAGCTGGGAGAGACAGGACCCCTTGACATCTCGATCTGCACAGAGG	62						
DB	267	CAACACCGACGCGAGCTGGGAGAGACAGGACCCCTTGACATCTCGATCTGCACAGAGG	326						
QY	63	TCCTGGCTGACCGAGCAGCTCTCTCTCTAGATGACCTCACCTCCAGCTCTCCAGT	122						
DB	327	TCCTGGCTGACCGAGCAGCTCTCTCTCTAGATGACCTCACCTCCAGCTCTCCAGT	386						
QY	123	TTTCAGGTTGGAGACATTAGATGGAGCCCAAGAGATGGCTCTGAGGCGGACAGAGAAA	182						
DB	387	TTTCAGGTTGGAGACATTAGATGGAGCCCAAGAGATGGCTCTGAGGCGGACAGAGAAA	446						
QY	183	GCTGGATTGGAGCGGGCTGCTCCATGGAGTCAAGTCCAGGGCGAGACCGGAA	242						
DB	447	GCTGGATTGGAGCGGGCTGCTCCATGGAGTCAAGTCCAGGGCGAGACCGGAA	506						
QY	243	ATTGCGCCCTCAGATAAGAGTCAACCTCACTACCGAAAGGAAACAGGTGCCAGTCAAGC	302						
DB	507	ATTGCGCCCTCAGATAAGAGTCAACCTCACTACCGAAAGGAAACAGGTGCCAGTCAAGC	566						
QY	303	GGATCCAAACCGATTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGCCCGA	362						
DB	567	GGATCCAAACCGATTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGCCCGA	626						
QY	363	GGATCTGGCTGGACTTCCAGAGTACTGAGCAAGACAGCAAGTACTCCAGCAGTCCGAA	422						
DB	627	GGATCTGGCTGGACTTCCAGAGTACTGAGCAAGACAGCAAGTACTCCAGCAGTCCGAA	686						
QY	423	ATACACAGGGGCTCCACAGGTAAAGAGTCCCTGATGAAGGCTGTGTAAGCTTAAGGA	482						
DB	687	ATACACAGGGGCTCCACAGGTAAAGAGTCCCTGATGAAGGCTGTGTAAGCTTAAGGA	746						
QY	483	CGGAGTCAATGCTGCAATTTGCGCACTGTGCGAGATCGACAGGAGCTCTGGCAATCCTCA	542						
DB	747	CGGAGTCAATGCTGCAATTTGCGCACTGTGCGAGATCGACAGGAGCTCTGGCAATCCTCA	806						
QY	543	GCCCCCTGGTAAATGCCCCAGTGCGACAGATGATATACCGAGGGCCACAGCGCTCTGCACAT	602						
DB	807	GCCCCCTGGTAAATGCCCCAGTGCGACAGATGATATACCGAGGGCCACAGCGCTCTGCACAT	866						
QY	603	CGCATTTGAGAGAGGAGTCTGAGTGTGTAAGCTCTCTGGTGGAGAAATGGGGCCCAATGT	662						
DB	867	CGCATTTGAGAGAGGAGTCTGAGTGTGTAAGCTCTCTGGTGGAGAAATGGGGCCCAATGT	926						
QY	663	GCATGCCCGGCGCTGCGGCGCTTCTCCAGAGGGCCAAAGGAGTCTGCTTTTATTTTCGG	722						
DB	927	GCATGCCCGGCGCTGCGGCGCTTCTCCAGAGGGCCAAAGGAGTCTGCTTTTATTTTCGG	986						
QY	723	TGAGCTACCCCTCTCTTTTGGCCGCTTGCAACAGAGTGGGATGTGTAAAGCTTACCTCCT	782						
DB	987	TGAGCTACCCCTCTCTTTTGGCCGCTTGCAACAGAGTGGGATGTGTAAAGCTTACCTCCT	1046						
QY	783	GGAGAACCCACACAGCCCGGAGCTGAGGAGCCACTGATCCAGGGCAACACAGTCCCT	842						
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QY	843	GCATGCCCTAGTATGATCTCGACAACTCAGCTGAGAACTTGCACTGGTGACCAAGCAT	902						
DB	1107	GCATGCCCTAGTATGATCTCGACAACTCAGCTGAGAACTTGCACTGGTGACCAAGCAT	1166						
QY	903	GTATGATGGGCTCTCCAAAGTGGGGCCCGCTCTGCGCTTACCGTGGAGTCTGAGGACAT	962						
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QY	963	CGGCAACCTGCGAGGATCTCACGCTCTGAAGCTGGCGCCCAAGGAGGCGCAAGATCGAGAT	1022
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QY	1083	CGAGTGGTCTATGGSCCTGTCGGGTGTCGCTGTATGACCTGGCTTCTGTGACAGCTG	1142
DB	1347	CGAGTGGTCTATGGSCCTGTCGGGTGTCGCTGTATGACCTGGCTTCTGTGACAGCTG	1406
QY	1143	TGAGGAGAACTCAGTGTCTGGAGATCATTTGCTTTTCAATGCAAGAGCCGCGACACCG	1202
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DB	1467	AATGTCGTTTGGAGCCCTCTGAACTGCTGCGAGGCGAAATGGGATCTGCTCATCCC	1526
QY	1263	CAAGTTCCTTTAAACTTCTGTTAATCTGATCTACATGTTTCTTCAACCGCTGTTC	1322
DB	1527	CAAGTTCCTTTAAACTTCTGTTAATCTGATCTACATGTTTCTTCAACCGCTGTTC	1586
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QY	1383	CTTCATGCTGTAAGCGGGCCACATCTCTTATCTGCTAGGGGGGATCTACCTCTCTGGG	1442
DB	1647	CTTCATGCTGTAAGCGGGCCACATCTCTTATCTGCTAGGGGGGATCTACCTCTCTGGG	1706
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QY	1503	CTTTGAAATCTCTTCTGTTCCAGGCGCTGCTCACAGTGGTGTCCAGAGTGTCTGTTT	1562
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DB	1827	CTTGGCCATCGAGTGTGTAAGCTTCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1886
QY	1623	CTGCTTTTACTATACAGTGGCTTCCAGCACAGGATCTACAGTGTCTATGATCCAGAA	1682
DB	1887	CTGCTTTTACTATACAGTGGCTTCCAGCACAGGATCTACAGTGTCTATGATCCAGAA	1946
QY	1683	GGTTCATCTGCGGAGCTGCTGCGCTTCTTCTGATCTACTTATGCTCTCTTTTTCGGCTT	1742
DB	1947	GGTTCATCTGCGGAGCTGCTGCGCTTCTTCTGATCTACTTATGCTCTCTTTTTCGGCTT	2006
QY	1743	CGCTGTAGCCCTGCTGAGCTGAGCCAGAGGCTTGGCGGCCCGAGAGCTCTTACAGGCC	1802
DB	2007	CGCTGTAGCCCTGCTGAGCTGAGCCAGAGGCTTGGCGGCCCGAGAGCTCTTACAGGCC	2066
QY	1803	CAATGCCACAGAGTCAAGTCCAGCCATGGAGGACAGGAGGACAGGGGCGGCA	1862
DB	2067	CAATGCCACAGAGTCAAGTCCAGCCATGGAGGACAGGAGGACAGGGGCGGCA	2126
QY	1863	GTACAGGGGTATCTCTGAAAGCTCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGCGA	1922
DB	2127	GTACAGGGGTATCTCTGAAAGCTCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGCGA	2186
QY	1923	GCTGGCCCTTCCAGGAGAGCTGCACTTCCGCGGATGGTGTCTGCTGCTGCTGCTGCTGCTA	1982
DB	2187	GCTGGCCCTTCCAGGAGAGCTGCACTTCCGCGGATGGTGTCTGCTGCTGCTGCTGCTGCTA	2246
QY	1983	CGTGTGCTCACCTTACATCTCTGCTCTCAACATGCTCATCCCTCATGAGCGAGACCGT	2042
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US-11-013-090-4
; Sequence 4, Application US/11013090
; Publication No. US20050158827A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID
; TITLE OF INVENTION: RECEPTOR FAMILY OF PROTEINS AND USES THEREOF
; FILE REFERENCE: MPI98-093P2RCP3DVIAM
; CURRENT APPLICATION NUMBER: US/11/013,090
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: US 09/439,165
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/421,134
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: US 09/258,633
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/114,078
; PRIOR FILING DATE: 1998-12-28
; PRIOR APPLICATION NUMBER: US 60/108,322
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 2809
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (361)....(2652)
US-11-013-090-4
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 2464; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 387 TTTTCAAGGTTGGAGACATTTAGATGAGGCGCAAGAAAGATGGCTCTGAGGCGGACAGAGGAAA 446
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QY 183 GCTCGATTTTGGGAGCGGGCTGCTCCCATGGAGTCAAGTTCAGGGCGAGGACCGGAA 242
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QY 447 GCTCGATTTTGGGAGCGGGCTGCTCCCATGGAGTCAAGTTCAGGGCGAGGACCGGAA 506
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; Sequence 1401, Application US/10264237							
; Publication No. US20040009491A1							
; GENERAL INFORMATION:							
; APPLICANT: Birse et al.							
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies							
; FILE REFERENCE: P131P1							
; CURRENT APPLICATION NUMBER: US/10/264,237							
; PRIORITY FILING DATE: 2002-10-04							
; PRIOR APPLICATION NUMBER: PCT/US01/16450							
; PRIOR FILING DATE: 2001-05-18							
; PRIOR APPLICATION NUMBER: US 60/205,515							
; PRIOR FILING DATE: 2000-05-19							
; NUMBER OF SEQ ID NOS: 2876							
; SOFTWARE: PatentIn Ver. 3.1							
; SEQ ID NO 1401							
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Matches 2459; Conservative 3; Mismatches 4; Indels 1; Gaps 1;							
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Db 2762 TCCCAAGT 2768

RESULT 5

US-10-137-316-1
; Sequence 1, Application US/10137316
; Publication No. US20030022289A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1
; LENGTH: 2805
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)..(2674)
US-10-137-316-1

Query Match 98.2%; Score 2424.6; DB 5; Length 2805;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2455; Conservative 0; Mismatches 9; Indels 5; Gaps 2;
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Db 347 TCCTGGCTGGACCGAGCTATGCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCA 406
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QY 181 AAGCTGGATTTTGGAGCGGCGCTGCCCTCCATGGAGTCAAGTTCCAGGGGAGGACCGG 240
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QY 241 AAATTCGCCCTCAGATAACAGTCAAGCTCAACTACCGAAAGGGAACAGGTGCCAGTCAG 300
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QY 301 CCGGATCCAAACCGATTTTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCGCC 360
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QY 361 GAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAAGACAGCAAGTACCTCAACCGACTCG 420
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QY 421 GAATACACAGAGGCTCCACAGGTAAAGCTGCTGATGAGGCTGTGTGAACCTTAAG 480
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QY 2461 GGTCCCCAGT 2469
DB GGTCCCCAGT 2752

RESULT 6

US-09-978-303-35
; Sequence 35, Application US/09978303
; Publication No. US20030049728A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; ; TITLE OF INVENTION: capsaicin receptor and capsaicin
; ; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CN

; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-303-35

Query Match 96.3%; Score 2378.4; DB 3; Length 2380;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2379; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 121 GGGCTGCTCCCATGAGTACAGTCCAGCGGACGAGCGGAATTCGCCCTCAGATA 180

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US-10-342-844-67
; Sequence 67, Application US/10342844
; Publication No. US20040009537A1
; GENERAL INFORMATION:
; APPLICANT: Roos, Jack
; APPLICANT: Stauderman, Kenneth
; APPLICANT: Velicelebi, G'n.l
; TITLE OF INVENTION: METHODS OF MODULATING AND IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT MODULATE INTRACELLULAR CALCIUM
; FILE REFERENCE: 37481-3307
; CURRENT APPLICATION NUMBER: US/10/342,844
; CURRENT FILING DATE: 2003-01-13
; PRIOR APPLICATION NUMBER: US 60/347,459
; PRIOR FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: US 60/401,171
; PRIOR FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US 60/405,678
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 2295
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2292)
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Genbank AAD26363
; DATABASE ENTRY DATE: 1999-04-07
US-10-342-844-67
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Query Match 92.9%; Score 2293.4; DB 6; Length 2295;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2294; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Qy 157 GATGGCTCTCAGCGCGGACAGAGAAAGCTGGATTTTGGGAGCGGCTGCCCTCCCATGGAG 216
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Qy	697	GGCCAAAGGACTCTGCTTTTATTTCCGTTGAGTACCCCTCTCTTTTGGCCGCTTGCACCAAG	756
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Db	661	CAGTGGGATGTGTGAAGTACTCTCTTGAGAAACCCACACAGCCGCGCAGCCTGCAAGGCC	720
Qy	817	ACTGACTCCCAAGGGCAACACAGTCTCTGTGATGCCCTTAGTGATCTCGGACAACTGAGCT	876
Db	721	ACTGACTCCCAAGGGCAACACAGTCTCTGTGATGCCCTTAGTGATCTCGGACAACTGAGCT	780
Qy	877	GAGAACTTGCACTGGTGTACAGACATGTATGATGGGCTCTCCAAAGCTGGGGCCCGGCTC	936
Db	781	GAGAACTTGCACTGGTGTACAGACATGTATGATGGGCTCTCCAAAGCTGGGGCCCGGCTC	840
Qy	937	TGCCCTACCGTGCAGCTTGAGGACATCGCAACTGCAAGTATCTCAAGCCTCTGAAAGCTG	996
Db	841	TGCCCTACCGTGCAGCTTGAGGACATCGCAACTGCAAGTATCTCAAGCCTCTGAAAGCTG	900
Qy	997	GCCGCGAAGGAGGGGCAAGATCGAGATTTTCAAGCACATCTCTGACAGCGGAGTTTTCAAG	1056
Db	901	GCCGCGAAGGAGGGGCAAGATCGAGATTTTCAAGCACATCTCTGACAGCGGAGTTTTCAAG	960
Qy	1057	CTGAGGCCACTTTCCGAAAGTTTCAACGAGTGTGCTATGAGGCTGTCCGGGTGTCCGCTG	1116
Db	961	CTGAGGCCACTTTCCGAAAGTTTCAACGAGTGTGCTATGAGGCTGTCCGGGTGTCCGCTG	1020
Qy	1117	TATGACTCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTGTGTGGAGATCATTTGCCCTT	1176
Db	1021	TATGACTCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTGTGTGGAGATCATTTGCCCTT	1080
Qy	1177	CATTGCAAGAGCCCGCACCGACACCGAATGTGTCTTTTGGAGCCCTTGAAACAACTGCTG	1236
Db	1081	CATTGCAAGAGCCCGCACCGACACCGAATGTGTCTTTTGGAGCCCTTGAAACAACTGCTG	1140
Qy	1237	CAGCGGAAATGGGATCTGCTCATCCCCAAGTTCTTCTTAAACTTCTCTGTGTAACTGATC	1296
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Qy	1357	CCTCACCTGAAAGCGGAGTTGGAACCTCCATGCTGTGAGCGGCGCACATCTTATCTCTG	1416
Db	1261	CCTCACCTGAAAGCGGAGTTGGAACCTCCATGCTGTGAGCGGCGCACATCTTATCTCTG	1320
Qy	1417	CTAGGGGGGATCTACTCCTCTGTGGGCGAGCTGTGTGTAATCTTCTGGCGCGCACGTGTC	1476
Db	1321	CTAGGGGGGATCTACTCCTCTGTGGGCGAGCTGTGTGTAATCTTCTGGCGCGCACGTGTC	1380
Qy	1477	ATCTGGATCTCGTTCATAGACAGCTATTTGAAATCTCTTCTTCTGTTCCAGGCCCTGCTC	1536
Db	1381	ATCTGGATCTCGTTCATAGACAGCTATTTGAAATCTCTTCTTCTGTTCCAGGCCCTGCTC	1440

RESULT 9

RESUL 9
UIS-11-013-090-6US-11-013-090-6
: Sequence 6. Application US/11013090

Publication No. US20050158827A1

; Publication No: US20
: GENERAL INFORMATION:
: GENERAL INFORMATION:

APPLICANT: Millennium Pharmaceuticals, Inc.

APPLICANT: CURTIS ROYAL PHARMACEUTICALS, INC.

APPLICANT: CURTIS, RORY A.J.
TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID

TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID RECEPTOR FAMILY OF PROTEINS AND USES THEREOF

; TITLE OF INVENTION: RECEPTOR FAMILY OF F
 DTG REFERENCE: MDIA8-002325C83201 AM

; FILE REFERENCE: MPI98-093P2RCP3DV1AM
CUMULATIVE ADDITION NUMBER: IIS/11/013 080

; CURRENT APPLICATION NUMBER: US/11

;; PRIOR APPLICATION NUMBER: US 09/439,165
;; PRIOR FILING DATE: 1999-11-12
;; PRIOR APPLICATION NUMBER: US 09/421,134
;; PRIOR FILING DATE: 1999-10-19
;; PRIOR APPLICATION NUMBER: US 09/258,633
;; PRIOR FILING DATE: 1999-02-26
;; PRIOR APPLICATION NUMBER: US 60/114,078
;; PRIOR FILING DATE: 1998-12-28
;; PRIOR APPLICATION NUMBER: US 60/108,322
;; PRIOR FILING DATE: 1998-11-13
;; NUMBER OF SEQ ID NOS: 23
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; SEQ ID NO 6
; LENGTH: 2292
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2292)
US-11-013-090-6

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Qy 157 GATGGCTCTGAGGGCGACAGAGAAAGCTGATTTTGGAGCGGGCTGCCCTCCATGGAG 216
Db 61 GATGGCTCTGAGGGCGACAGAGAAAGCTGATTTTGGAGCGGGCTGCCCTCCATGGAG 120

Qy 217 TCAGATTCCAGGGCGAGGACCGGAAATTCGCCCTCAGATAAGTCAACCTCAACTAC 276
Db 121 TCAGATTCCAGGGCGAGGACCGGAAATTCGCCCTCAGATAAGTCAACCTCAACTAC 180

Qy 277 CGAAGGGGAAACAGGTGCGAGTCAGCGGATCCAAACCGATTGACCGAGATCGGCTCTTC 336
Db 181 CGAAGGGGAAACAGGTGCGAGTCAGCGGATCCAAACCGATTGACCGAGATCGGCTCTTC 240

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Db 241 AATCGGCTCTCCGGGTGTCCCGAGATCTGCGAGATCTGCGAGTACCTGAGCAAG 300

Qy 397 ACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGTAAGACGTGCTG 456
Db 301 ACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGTAAGACGTGCTG 360

Qy 457 ATGAAGCTGTGCTGAAACCTTAAAGGACGAGTCAATGCTGCAATTCCTGCCACTGCTGCAG 516
Db 361 ATGAAGCTGTGCTGAAACCTTAAAGGACGAGTCAATGCTGCAATTCCTGCCACTGCTGCAG 420

Qy 517 ATCGACAGGACTCTGGCAATCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTAT 576
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Db 1261 CCTCACCTGAAAGCGAGGTTGGAACTCATACTGCTGAGCGGCCACATCTTATCTG 1320

Qy 1417 CTAGGGGGGATCTACCTCTCTGTTGGCCAGCTGTGGTACTTCTGCGCGCCGACGCTGTC 1476
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Qy 1477 ATCTGATCTCTGTTTATAGACAGCTACTTGAATCTCTCTCTGTTTCCAGGCCCTGCTC 1536
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Qy 1717 ATCTACTTACTTCTTTTTCGGCTTCTGCTGTAGCCCTGCTGAGCCCTGAGCAGGAGCT 1776
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Db 961 CTAGCCACCTTTCCGAAAGTTACCGAGTGGTCTATGGCCCTGTCCGGTGTGCGTG 1020
QY 1117 TATGACCTGGCTTCTGTGACAGCTGTGAGGAACTCAGTGTCTGAGATCATTCCTCTTT 1176
Db 1021 TATGACCTGGCTTCTGTGACAGCTGTGAGGAACTCAGTGTCTGAGATCATTCCTCTTT 1080
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QY 1837 CAGTGGACGAGGGCAACGGGGCCAGTACAGGGGTATCTCTGGAAGCTCTCTGAGCTC 1896
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QY 1957 ATGTGTCTGTCTGTCTGTGGCCCTACGTGTGTCTACCTATACCTCTGTCTCTCAATG 2016
Db 1861 ATGTGTCTGTCTGTCTGTGGCCCTACGTGTGTCTACCTATACCTCTGTCTCTCAATG 1920
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Db 1921 CTATCGCCCTCATGAGCGAGACCTCAACAGTGTCTGCTGCTGACCTGAGCTGAGCATCTGG 1980
QY 2077 AAGCTGCAGAAAGCATCTCTGTCTCTGAGATGAGAAATGGCTATTGGTGTGAGGAAG 2136
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QY 2197 CGCTGGTGTCTTTCAGGGTGGAGGTGAACCTGGGCTTTCATGGAGCAGACGCTGCTACG 2256
Db 2101 CGCTGGTGTCTTTCAGGGTGGAGGTGAACCTGGGCTTTCATGGAGCAGACGCTGCTACG 2160
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Db 2161 CTGTGTGAGGACCCGTTCAGGGCGAGGTGTCTCTCGAACTCTCGAAGAACCTGTCTCTGGCT 2220
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QY 2377 CTCCAGTCCCACTGA 2391
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US-09-809-391-191
; Sequence 191, Application US/09809391
; Publication No. US20030049618A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002p2
; CURRENT APPLICATION NUMBER: US/09/809,391
; CURRENT FILING DATE: 2001-03-16
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 761
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 191
; LENGTH: 2779
; TYPE: DNA
; ORGANISM: Homo sapiens
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; NAME/KEY: SITE
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; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (2004)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-809-391-191

Query Match 91.5%; Score 2259.2; DB 3; Length 2779;
Best Local Similarity 96.5%; Pred. No. 0;
Matches 2365; Conservative 10; Mismatches 5; Indels 70; Gaps 4;

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; Sequence 191, Application US/09882171
; Publication No. US2003017585A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P2
; CURRENT APPLICATION NUMBER: US/09/882,171
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 09/809,391
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 09/149,476
; PRIOR FILING DATE: 1998-09-08
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; PRIOR APPLICATION NUMBER: 60/043,580

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; PRIOR FILING DATE: 1997-08-22

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Query Match	83.5%	Score 2061.8	DB 3	Length 2860
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Qy	63	TCCTGGCTGG-ACCGAGCAGCCTCTCTCTCTAGGATGACCTCA	CCCTTCAGCTCTCCAG	121
Db	385	TCCTGGCTGGAAACCGAGCAGCCTCTCTCTCTAGGATGACCTCA	CCCTTCAGCTCTCCAG	444
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Qy	419	-CGGAATAACAGAGGGCTCACAGGTAAAGACGTGCTCTGATGA	AGGCTGTGCTG-ACCT	476
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Qy	537	TCCTCAGCCCTGTGTAATGCCAGTGCACAGATGACTATTAC	CCGAGGCCACAGCGCTCT	596
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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35	562.2	22.8	2616	3	US-09-500-123-5	Sequence 5, Appli
36	562.2	22.8	3500	3	US-09-500-123-6	Sequence 6, Appli
37	535.4	21.7	2845	3	US-09-235-451-24	Sequence 24, Appli
38	535.4	21.7	2845	3	US-09-978-303-24	Sequence 24, Appli
39	506.6	20.5	2229	3	US-09-500-123-10	Sequence 10, Appli
40	506.6	20.5	4059	3	US-09-500-123-11	Sequence 11, Appli
41	501.4	20.3	650	3	US-09-235-451-7	Sequence 7, Appli
42	501.4	20.3	650	3	US-09-978-303-7	Sequence 7, Appli
43	465.2	18.8	3061	3	US-09-949-016-4055	Sequence 4055, Ap
44	454	18.4	454	3	US-09-132-316-19	Sequence 19, Appli
45	454	18.4	454	3	US-10-137-316-19	Sequence 19, Appli

ALIGNMENTS

RESULT 1

US-09-132-316-1

; Sequence 1, Application US/09132316B

; Patent No. 644440

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ruben, Steven M.

; TITLE OF INVENTION: Vanilloid Receptor-2

; FILE REFERENCE: 1488.1110000

; CURRENT APPLICATION NUMBER: US/09/132,316B

; CURRENT FILING DATE: 1998-08-11

; EARLIER APPLICATION NUMBER: US 60/040,163

; EARLIER FILING DATE: 1997-03-07

; EARLIER APPLICATION NUMBER: PCT/US98/04493

; EARLIER FILING DATE: 1998-03-06

; NUMBER OF SEQ ID NOS: 67

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 2805

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (5)..(2674)

US-09-132-316-1

Query Match 98.2%; Score 2424.6; DB 3; Length 2805;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2455; Conservative 0; Mismatches 9; Indels 5; Gaps 2;

QY	3	CGAGGCGGCGCGCGCTGGGAGGACACAGGACCCCTTGACATCTCCATCTGCACAGG	62
Db	287	CAACACCGACCGCGACGTGGGAGGAGACAGGACCCCTTGACATCTCCATCTGCACAGG	346
QY	63	TCCTGGCTGACCGGAGG--AGCCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCA	120
Db	347	TCCTGGCTGACCGGAGGATGCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCA	406
QY	121	GTTTTCAGTTGTGAGACATTTAGATGAGGCGCAAGAGATGGCTCTGAGGCGGACAGGA	180
Db	407	GTTTTCAGTTGTGAGACATTTAGATGAGGCGCAAGAGATGGCTCTGAGGCGGACAGGA	466
QY	181	AACTGGATTTTGGGAGCGGCTGCTCCCATGGAGTCACAGTTCAGGCGGAGGACCGG	240
Db	467	AACTGGATTTTGGGAGCGGCTGCTCCCATGGAGTCACAGTTCAGGCGGAGGACCGG	526
QY	241	AAATTCGCCCTTCAGATAAGAGTCAACCTCAACTACCGAAGGAAACAGGTGCCAGTCAG	300

Db	527	AAATTGCCCTTCAGATAAGAGTCAACCTCAACTACCAAGAGGAACAGGTGCAGTCAG	586
Qy	301	CCGGATCCAAACCGATTGTACCGAGATCGGCTCTTCAATCGGTTCTCCGGGGTGTCCCC	360
Db	587	CCGGATCCAAACCGATTGTACCGAGATCGGCTCTTCAATCGGTTCTCCGGGGTGTCCCC	646
Qy	361	GAGGATCTGGCTGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACTTCACCGAGTCG	420
Db	647	GAGGATCTGGCTGACTTCCAGAGTACCTGAGCAAGACCAGCAAGTACTTCACCGAGTCG	706
Qy	421	GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGTATGAAGGCTGTGTGAACCTTAAG	480
Db	707	GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGTATGAAGGCTGTGTGAACCTTAAG	766
Qy	481	GACGGAGTCAATGCTCGCATTTCTGCCACTGCTGCAGATCGACAGGAGTCTGTGCAATCCT	540
Db	767	GACGGGGTCAATGCTCGCATTTCTGCCACTGCTGCAGATCGACCGGAGTCTTGGCAATCCT	826
Qy	541	CAGCCCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC	600
Db	827	CAGCCCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC	886
Qy	601	ATCGCCATTTGAGAAAGAGAGTCTGCAGTGTGTGAAGTCTCTGTGTGAGAAATGGGGCCAAT	660
Db	887	ATCGCCATTTGAGAAAGAGAGTCTGCAGTGTGTGAAGTCTCTGTGTGAGAAATGGGGCCAAT	946
Qy	661	GTGCATGCCCGGGCTCTGGCGCGCTTCTCCAGAGGGCCCAAGGACTTCTCTTTATTTC	720
Db	947	GTGCATGCCCGGGCTCTGGCGCGCTTCTTCCAGAGGGCCCAAGGACTTCTCTTTATTTC	1006
Qy	721	GGTGAGCTTACCCCTCTCTTTGGCCGCTTGACCACAGCAGTGGGATGTGGTAAGCTACCTC	780
Db	1007	GGTGAGCTTACCCCTCTCTTTGGCCGCTTGACCACAGCAGTGGGATGTGGTAAGCTACCTC	1066
Qy	781	CTGAGAAACCCACACAGCCCGCCAGCGCTGCAGGCCACTGACTCCCAAGGGCAACACAGTC	840
Db	1067	CTGAGAAACCCACACAGCCCGCCAGCGCTGCAGGCCACTGACTCCCAAGGGCAACACAGTC	1126
Qy	841	CTGCATGCCCTTAGTGATGATCTCCGACAACTCAGCTGAGAACATTCAGCTGGTGACCAGC	900
Db	1127	CTGCATGCCCTTAGTGATGATCTCCGACAACTCAGCTGAGAACATTCAGCTGGTGACCAGC	1186
Qy	901	ATGTATGATGGGCTCTCCAAAGCTGGGGCCGCTCTGCCCTACCGTGCAGCTTGAGGAC	960
Db	1187	ATGTATGATGGGCTCTCTCAAAGCTTGGGGCCGCTCTGCCCTACCGTGCAGCTTGAGGAC	1246
Qy	961	ATCCGCAACCTGCAGGATCTCACGCCCTCTGAAGCTGGCCGCGCCCAAGGAGGCAAGATCGAG	1020
Db	1247	ATCCGCAACCTGCAGGATCTCACGCCCTCTGAAGCTGGCCGCGCCCAAGGAGGCAAGATCGAG	1306
Qy	1021	ATTTTCAGGCAATCTGACAGGGAGTTTTCAGGACTGAGCCACCTTTCGGAAAGTTC	1080
Db	1307	ATTTTCAGGCAATCTGACAGGGAGTTTTCAGGACTGAGCCACCTTTCGGAAAGTTC	1366
Qy	1081	ACCGAGTGGTCTATGGGCCCTGTCGGGTGTGCGTGTATGACCTGGCTCTGTGGGACAGC	1140
Db	1367	ACCGAGTGGTCTATGGGCCCTGTCGGGTGTGCGTGTATGACCTGGCTCTGTGGGACAGC	1426
Qy	1141	TGTGAGGAGAACTCAGTGTCTGGAGATCAATGSCCTTTCAITTCGAAGAGCCCGCACAC	1200
Db	1427	TGTGAGGAGAACTCAGTGTCTGGAGATCAATGSCCTTTCAITTCGAAGAGCCCGCACAC	1486
Qy	1201	CGAATGTGCTTTTGGAGCCCTGAAACAACTGCTGCAGGGGAAATGGGATCTGCTCATC	1260
Db	1487	CGAATGTGCTTTTGGAGCCCTGAAACAACTGCTGCAGGGGAAATGGGATCTGCTCATC	1546
Qy	1261	CCCAGTTCCTTTAAACTCTCTGTAACTCTGATCTACATGTTTCATCTTCACCGCTGTT	1320
Db	1547	CCCAGTTCCTTTAAACTCTCTGTAACTCTGATCTACATGTTTCATCTTCACCGCTGTT	1606
Qy	1321	GCCTACCATTACGCTTACCCTGAAGAAAGCAGGCCGCCCTTCACTTCGAAGGGAGGTTGGA	1380

1607	Db	GCTACCATCAGCCTTACCTCTGAAGA---AGGCGCGCCCTCACTGAAAGCGGAGGTTGGA	1661
1381	Qy	AACTCCATGCTGTGACGGGCCACATCCTTATCCTGCTAGGGGGATCTACCTCCTCGTG	1440
1664	Db	AACTCCATGCTGTGACGGGCCACATCCTTATCCTGCTAGGGGGATCTACCTCCTCGTG	1723
1441	Qy	GGCAGCTGTGGTACTTCTGGCGCGGCCACGTTTCATCTGTGATCTCGTTTCATAGACAGC	1500
1724	Db	GGCCAGCTGTGGTACTTCTGGCGCGGCCACGTTTCATCTGTGATCTCGTTTCATAGACAGC	1783
1501	Qy	TACTTTGAAATCCTTCTCCTGTTCAGGCCCTGCTCACAGTGTGTGCCAGGTGCTGTGT	1560
1784	Db	TACTTTGAAATCCTTCTCCTGTTCAGGCCCTGCTCACAGTGTGTGCCAGGTGCTGTGT	1843
1561	Qy	TTCTGTGCCATCAGATGGTACCTGCCCCCTGTTGTGTCTGCGCTGTGTCTGGGCTGGCTG	1620
1844	Db	TTCTGTGCCATCAGATGGTACCTGCCCCCTGTTGTGTCTGCGCTGTGTCTGGGCTGGCTG	1903
1621	Qy	AACTCTGCTTTATACAGTGTGCTTCACGACACAGGCACTTACAGTGTCTATGATCCAG	1680
1904	Db	AACTCTGCTTTATACAGTGTGCTTCACGACACAGGCACTTACAGTGTCTATGATCCAG	1963
1681	Qy	AAGGTCACTCTCGGGACCTGCTGCGTTCCTTCTGATCTACTTAGTCTCTCTTTTCGGC	1740
1964	Db	AAGGTCACTCTCGGGACCTGCTGCGTTCCTTCTGATCTACTTAGTCTCTCTTTTCGGC	2023
1741	Qy	TTCGCTGTAGCCTTGTGTAGCCTGTGAGCCAGGAGCTTGGCGCCGCCGAAGCTCTCACAGGC	1800
2024	Db	TTCGCTGTAGCCTTGTGTAGCCTGTGAGCCAGGAGCTTGGCGCCGCCGAAGCTCTCACAGGC	2083
1801	Qy	CCCAATGCCACAGAGTCAGTGCAGGCCCATGGAGGGACAGGAGACGAGGCAACGGGGCC	1860
2084	Db	CCCAATGCCACAGAGTCAGTGCAGGCCCATGGAGGGACAGGAGACGAGGCAACGGGGCC	2143
1861	Qy	CAGTACAGGGGTATCTGTGAAAGCCTCTCTGTGGAGCTCTTCAAAATTCACCATCGCATGGCC	1920
2144	Db	CAGTACAGGGGTATCTGTGAAAGCCTCTCTGTGGAGCTCTTCAAAATTCACCATCGCATGGCC	2203
1921	Qy	GAGCTGCCCCTTCAGGAGCAGCTGCATCTCCGGGGATGTGTGCTGTCTGTCTGTCTGGCC	1980
2204	Db	GAGCTGCCCCTTCAGGAGCAGCTGCATCTCCGGGGATGTGTGCTGTCTGTCTGTCTGTGGCC	2263
1981	Qy	TAGCTGTCTCACCTACCTCTGCTCTCAACATGCTCATCGCCCTCATGAGCGAGACC	2040
2264	Db	TAGCTGTCTCACCTACCTCTGCTCTCAACATGCTCATCGCCCTCATGAGCGAGACC	2323
2041	Qy	GTCAAAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCTC	2100
2324	Db	GTCAAAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCTC	2383
2101	Qy	CTGGAGATGAGAAATGGCTATTGGTGTGCAGAAAGCAGCGGGCAGGTGTGATGCTG	2160
2384	Db	CTGGAGATGAGAAATGGCTATTGGTGTGCAGAAAGCAGCGGGCAGGTGTGATGCTG	2443
2161	Qy	ACCGTTGGCACTAAGCCAGATGGCAGCCCCGGATGAGCGCTGTGCTTTCAGGGGTGAGGAG	2220
2444	Db	ACCGTTGGCACTAAGCCAGATGGCAGCCCCGGATGAGCGCTGTGCTTTCAGGGGTGAGGAG	2503
2221	Qy	GTGAACTGGGGTTCATGGGAGCAGACGCTGCCCTACGCTGTGTGAGGACCCGCTCAGGGGCA	2280
2504	Db	GTGAACTGGGGTTCATGGGAGCAGACGCTGCCCTACGCTGTGTGAGGACCCGCTCAGGGGCA	2563
2281	Qy	GGTGTCCCTCGAACTCTCGAGAACCTGTCTTGTGCTTCCCTCCCAAGGAGGATGAGAT	2340
2564	Db	GGTGTCCCTCGAACTCTCGAGAACCTGTCTTGTGCTTCCCTCCCAAGGAGGATGAGAT	2623
2341	Qy	GGTGTCCCTCGAGGAAAATATGTGCCCGTCCAGCTCTCCAGTCCCAATGATGSCCCAGA	2400
2624	Db	GGTGTCCCTCGAGGAAAATATGTGCCCGTCCAGCTCTCCAGTCCCAATGATGSCCCAGA	2683
2401	Qy	TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTTCCAAACCACTCTGCTGTGCTCTGG	2460
2684	Db	TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTTCCAAACCACTCTGCTGTGCTCTGG	2743

QY 2461 GGTCCCAAGT 2469
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Db 2744 GGTCCCAAGT 2752

RESULT 2

US-10-137-316-1
; Sequence 1, Application US/10137316
; Patent No. 6906178
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1
; LENGTH: 2805 bp
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(2674)
US-10-137-316-1

Query Match 98.2%; Score 2424.6; DB 3; Length 2805;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2455; Conservative 0; Mismatches 9; Indels 5; Gaps 2;

QY 3 CGAGCCGACGCGGAGCTGGAGGAGAGACAGAGACCTTGAATCTCCATCTGCAAGG 62
Db 287 CAACACCGACGCGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 346

QY 63 TCCTGGCTGGACCGGAGC--AGCTCTCTCTCTAGGAGAGCTCACTCCAGCTCTCCCA 120
Db 347 TCCTGGCTGGACCGGAGCTATGCTCTCTCTAGGAGAGCTCACTCCAGCTCTCCCA 406

QY 121 GTTTTCAGGTTGGAGACATTAGATGGAGGCGAAGAGATGGCTCTGAGGCGGAGAGGA 180
Db 407 GTTTTCAGGTTGGAGACATTAGATGGAGGCGGAGAGAGATGGCTCTGAGGCGGAGAGGA 466

QY 181 AAGCTGGATTTGGAGCGGCTGCTCCCATGAGTACAGTTCACAGGCGAGACCGG 240
Db 467 AAGCTGGATTTGGAGCGGCTGCTCCCATGAGTACAGTTCACAGGCGAGACCGG 526

QY 241 AAATTCGCCCTCAGATAAGAGTCAACTCACTACCGAAGGGAACAGGTGCCAGTCAG 300
Db 527 AAATTCGCCCTCAGATAAGAGTCAACTCACTACCGAAGGGAACAGGTGCCAGTCAG 586

QY 301 CCGGATCCAAACCGATTTGACCGGAGATCGGCTCTTCAATGGGTCTCCCGGGGTGCC 360
Db 587 CCGGATCCAAACCGATTTGACCGGAGATCGGCTCTTCAATGGGTCTCCCGGGGTGCC 646

QY 361 GAGGATCTGGTGGACTTCCAGAGTACCTGAGCAAGACCAAGTACCTCAGGACTCG 420
Db 647 GAGGATCTGGTGGACTTCCAGAGTACCTGAGCAAGACCAAGTACCTCAGGACTCG 706

QY 421 GAATACACAGAGGCTCCAGAGTAAAGCGTGCCTGATGAGGCTGTGCTGAACCTTAAG 480
Db 707 GAATACACAGAGGCTCCAGAGTAAAGCGTGCCTGATGAGGCTGTGCTGAACCTTAAG 766

QY 481 GACGGAGTCAATGCTGCTGATTTCTGCACTGCTGAGATCGAGAGGACTCTGGCAATCCT 540
Db 767 GACGGAGTCAATGCTGCTGATTTCTGCACTGCTGAGATCGAGAGGACTCTGGCAATCCT 826

QY 541 CAGCCCTGGTAAATGCCCCAGTGCACAGATGATATTAACGAGGCGGAGGCTCTGCAC 600
Db 827 CAGCCCTGGTAAATGCCCCAGTGCACAGATGATATTAACGAGGCGGAGGCTCTGCAC 886

QY 601 ATCGCCATTGAGAGAGAGAGTCTGCAGTGTGTGAAGCTCCTGCTGGAGAAATGGGGCCCAAT 660
| | | | |
Db 887 ATCGCCATTGAGAGAGAGAGTCTGCAGTGTGTGAAGCTCCTGCTGGAGAAATGGGGCCCAAT 946

QY 661 GTGATGCCCGGGGCTGCGGCGCTTTCTTCCAGAGAGGCGCCCAAGGAGCTTGTCTTTTATTTTC 720
| | | | |
Db 947 GTGATGCCCGGGGCTGCGGCGCTTTCTTCCAGAGAGGCGCCCAAGGAGCTTGTCTTTTATTTTC 1006

QY 721 GGTGAGCTACCCCTCTCTTTTGGCGCTTTGCGACCAAGCAGTGGGATGTGTGAAGCTACCTTC 780
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Db 1007 GGTGAGCTACCCCTCTCTTTTGGCGCTTTGCGACCAAGCAGTGGGATGTGTGAAGCTACCTTC 1066

QY 781 CTGGAGAACCCACACAGCCGCGCAGCTGCGAGGCGCTGAGTCTCCAGGCGCAACACAGTC 840
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Db 1067 CTGGAGAACCCACACAGCCGCGCAGCTGCGAGGCGCTGAGTCTCCAGGCGCAACACAGTC 1126

QY 841 CTGATGCTCCCTAGTGTGATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACCAAGC 900
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Db 1127 CTGATGCTCCCTAGTGTGATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACCAAGC 1186

QY 901 ATGTATGATGGGCTCTTCCAAAGCTGGGGCCCGCTCTGCGCTTACCGTGCAGCTTGAGAAC 960
| | | | |
Db 1187 ATGTATGATGGGCTCTTCCAAAGCTGGGGCCCGCTCTGCGCTTACCGTGCAGCTTGAGAAC 1246

QY 961 ATCCGCAACCTGCAAGATCTCACGCTCTGAACTGGCGCGCCGCAAGGAGGCGCAAGTCCAG 1020
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Db 1247 ATCCGCAACCTGCAAGATCTCACGCTCTGAACTGGCGCGCCGCAAGGAGGCGCAAGTCCAG 1306

QY 1021 ATTTTTCAGGCAATCTCTGAGCGGAGTTTTCAGGACTGAGGACCTTTTCCGAAAGTTTC 1080
| | | | |
Db 1307 ATTTTTCAGGCAATCTCTGAGCGGAGTTTTCAGGACTGAGGACCTTTTCCGAAAGTTTC 1366

QY 1081 ACCGAGTGGTGTATAGGCTGTCCGGGTGTCGTGTATGACCTTGTGTGTGTGTGTGTGTGTGT 1140
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Db 1367 ACCGAGTGGTGTATAGGCTGTCCGGGTGTCGTGTATGACCTTGTGTGTGTGTGTGTGTGTGT 1426

QY 1141 TGTGAGGAGAACTCAGTGTGGAGATCAATGGCTTTTCAATGCAAGAGCCGCGACCGACAC 1200
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Db 1427 TGTGAGGAGAACTCAGTGTGGAGATCAATGGCTTTTCAATGCAAGAGCCGCGACCGACAC 1486

QY 1201 CGAATGCTGTGTTTGGAGCCCTCAACAACTGCTGAGGCGAAATGGGATCTGCTCATC 1260
| | | | |
Db 1487 CGAATGCTGTGTTTGGAGCCCTCAACAACTGCTGAGGCGAAATGGGATCTGCTCATC 1546

QY 1261 CCCAAGTTCTTCTTAAACTTCTGTGTAACTGTATCTGATCTACATGTTTCACTTCCACCGCTGT 1320
| | | | |
Db 1547 CCCAAGTTCTTCTTAAACTTCTGTGTAACTGTATCTGATCTACATGTTTCACTTCCACCGCTGT 1606

QY 1321 GCCTTACCATCAGCTTACCTGAGAGAGAGGCGCGCCCTCACTGAAAGCGGAGGTTTGGGA 1380
| | | | |
Db 1607 GCCTTACCATCAGCTTACCTGAGAGAGAGGCGCGCCCTCACTGAAAGCGGAGGTTTGGGA 1663

QY 1381 AACTTCCATGCTGTGAGCGGCGCACATCTTATCTGCTGAGGCGGATCTACTCTCTGCTGTG 1440
| | | | |
Db 1664 AACTTCCATGCTGTGAGCGGCGCACATCTTATCTGCTGAGGCGGATCTACTCTCTGCTGTG 1723

QY 1441 GGGCAGCTGTGTTAATTTCTGGCGCGCCACGTGTTCATCTGTGATCTCTGTTCATAGACAGC 1500
| | | | |
Db 1724 GGGCAGCTGTGTTAATTTCTGGCGCGCCACGTGTTCATCTGTGATCTCTGTTCATAGACAGC 1783

QY 1501 TACTTTGAAATCTTCTTCTGTTCCAGGCGCTGCTCAGTGTGTGTCCAGGCTGTGTGT 1560
| | | | |
Db 1784 TACTTTGAAATCTTCTTCTGTTCCAGGCGCTGCTCAGTGTGTGTGTCCAGGCTGTGTGT 1843

QY 1561 TTCTGCGCCATCAGTGTGTTACCTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1620
| | | | |
Db 1844 TTCTGCGCCATCAGTGTGTTACCTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1903

QY 1621 AACCTGCTTTTATATACAGTGTGCTTCCAGCACACAGGCGATCTTACAGTGTATGATCCAG 1680
| | | | |
Db 1904 AACCTGCTTTTATATACAGTGTGCTTCCAGCACACAGGCGATCTTACAGTGTATGATCCAG 1963

QY 1681 AAGTCAATCTCGGGAGACCTGCTGCGCTTCTTCTGATCTACTAGTCTTCTTCTTTCGGC 1740
Db 1964 AAGTCAATCTCGGGAGACCTGCTGCGCTTCTTCTGATCTACTAGTCTTCTTTCGGC 2023
QY 1741 TTGCTGTAGCTGTGAGCTGTGAGCCAGGAGCTTGGCGCCCGAAGCTCTACAGGC 1800
Db 2024 TTGCTGTAGCTGTGAGCTGTGAGCCAGGAGCTTGGCGCCCGAAGCTCTACAGGC 2083
QY 1801 CCCAATGCCACAGAGTCAGTGTGAGCCATGAGAGGACAGGAGGACAGGAGGACAGGAGGAC 1860
Db 2084 CCCAATGCCACAGAGTCAGTGTGAGCCATGAGAGGACAGGAGGACAGGAGGACAGGAGGAC 2143
QY 1861 CAGTACAGGGGTATCTGGAAGCTCTTGGAGCTCTTCAAAATTCACCATTCGCGATGGGC 1920
Db 2144 CAGTACAGGGGTATCTGGAAGCTCTTGGAGCTCTTCAAAATTCACCATTCGCGATGGGC 2203
QY 1921 GAGCTGGCTTTCAGGAGAGCTGCACTTCCGGGACATGCTGTGCTGTGCTGTGCTGGCC 1980
Db 2204 GAGCTGGCTTTCAGGAGAGCTGCACTTCCGGGACATGCTGTGCTGTGCTGTGCTGGCC 2263
QY 1981 TAGCTGTCTACCTACATCTGCTGCTCAACATGCTCAATCGCCCTCATGAGCGAGACC 2040
Db 2264 TAGCTGTCTACCTACATCTGCTGCTCAACATGCTCAATCGCCCTCATGAGCGAGACC 2323
QY 2041 GTCAACAGTGTGCGCACTGACAGTGTGAGCAATGTGGAAGCTGCAAGAACCATCTCTGTC 2100
Db 2324 GTCAACAGTGTGCGCACTGACAGTGTGAGCAATGTGGAAGCTGCAAGAACCATCTCTGTC 2383
QY 2101 CTGGAGATGAGAAATGCTTATGCTGTGAGGAGCAATGTGGAAGCTGCAAGAACCATCTCTGTC 2160
Db 2384 CTGGAGATGAGAAATGCTTATGCTGTGAGGAGCAATGTGGAAGCTGCAAGAACCATCTCTGTC 2443
QY 2161 ACCTGTGGCACTAAGCCAGATGGCAGCCCGATGAGCGCTGGTGTCTTCAAGGTGGAGGAG 2220
Db 2444 ACCTGTGGCACTAAGCCAGATGGCAGCCCGATGAGCGCTGGTGTCTTCAAGGTGGAGGAG 2503
QY 2221 GTGAATGGGCTTCATGGGAGCAGACGCTGCTACGCTGTGTGAGGACCCGCTCAGGGGCA 2280
Db 2504 GTGAATGGGCTTCATGGGAGCAGACGCTGCTACGCTGTGTGAGGACCCGCTCAGGGGCA 2563
QY 2281 GGTGTCTCTCGAACTCTCGAAGACCTGCTGCTGCTTCCCTCCCAAGGAGGATGAGGAT 2340
Db 2564 GGTGTCTCTCGAACTCTCGAAGACCTGCTGCTGCTTCCCTCCCAAGGAGGATGAGGAT 2623
QY 2341 GGTGCTCTCAGGAAATATGTGCTGCTCCAGCTCCAGTCCCACTGATGGCCAGCA 2400
Db 2624 GGTGCTCTCAGGAAATATGTGCTGCTCCAGCTCCCACTGATGGCCAGCA 2683
QY 2401 TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAAACCAATCTGCTGGCTCTGG 2460
Db 2684 TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTCCAAACCAATCTGCTGGCTCTGG 2743
QY 2461 GGTCCCACT 2469
Db 2744 GGTCCCACT 2752

RESULT 3
US-09-235-451-35
; Sequence 35, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461

; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (19)...(2313)
; OTHER INFORMATION: Human VR2
US-09-235-451-35

Query Match 96.3%; Score 2378.4; DB 3; Length 2380;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2379; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTCTTTCAGGTTGGAGACA 138
Db 1 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTCTTTCAGGTTGGAGACA 60
QY 139 TTAGATGGAGGGCCAAAGAGATGGCTCTGAGGGCGGACAGAGGAAAGCTGGATTTTGGAGC 198
Db 61 TTAGATGGAGGGCCAAAGAGATGGCTCTGAGGGCGGACAGAGGAAAGCTGGATTTTGGAGC 120
QY 199 GGGCTCCCTCCCATGAGTCAACAGTTTCAGGGGCGAGACCGGAAATTCGCCCCCTCAGATA 258
Db 121 GGGCTCCCTCCCATGAGTCAACAGTTTCAGGGGCGAGACCGGAAATTCGCCCCCTCAGATA 180
QY 259 AGAGTCAACTCACTACCGAAGGGAACAGGTGCGGATCCAGCGGATCCAAACCGATTT 318
Db 181 AGAGTCAACTCACTACCGAAGGGAACAGGTGCGGATCCAGCGGATCCAAACCGATTT 240
QY 319 GACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCTCCAGGATCTGGCTGGACTT 378
Db 241 GACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCTCCAGGATCTGGCTGGACTT 300
QY 379 CCAGAGTACCTGAGCAAGACCAAGATCACTCAACCGATCTCGGAATACACAGAGGGCTCC 438
Db 301 CCAGAGTACCTGAGCAAGACCAAGATCACTCAACCGATCTCGGAATACACAGAGGGCTCC 360
QY 439 ACAGGTAAGACGTCCTGATGAGGCTGTGTAACCTTAAGACCGGATCAATGCTGTC 498
Db 361 ACAGGTAAGACGTCCTGATGAGGCTGTGTAACCTTAAGACCGGATCAATGCTGTC 420
QY 499 ATTCTGCCACTGCTGCAGATCGACAGGACTCTTGGCAATCTCAGCCCCCTGGTAAATGCC 558
Db 421 ATTCTGCCACTGCTGCAGATCGACAGGACTCTTGGCAATCTCAGCCCCCTGGTAAATGCC 480
QY 559 CAGTGACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAGAGG 618
Db 481 CAGTGACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAGAGG 540
QY 619 AGTCTCAGTGTGAGGCTCTCTGGTGGAAATGGGGCCCAATGTGATGCCCCGGCTGC 678
Db 541 AGTCTCAGTGTGAGGCTCTCTGGTGGAAATGGGGCCCAATGTGATGCCCCGGCTGC 600
QY 679 GGCCTGCTTCTCCAGAGGGCCCAAGGACTTGTCTTTATTTTCGGTGAAGTACCCCTCTCT 738
Db 601 GGCCTGCTTCTCCAGAGGGCCCAAGGACTTGTCTTTATTTTCGGTGAAGTACCCCTCTCT 660
QY 739 TTGGCCGCTTGCACCAAGAGTGGATGTGTAAGCTACTCTCTGGAGAACCCACACACAG 798
Db 661 TTGGCCGCTTGCACCAAGAGTGGATGTGTAAGCTACTCTCTGGAGAACCCACACACAG 720
QY 799 CCGCCAGCTGAGGCGCACTGACTCCCGAGGCAACACAGTCTCTGATGCGCTAGTGATG 858
Db 721 CCGCCAGCTGAGGCGCACTGACTCCCGAGGCAACACAGTCTCTGATGCGCTAGTGATG 780
QY 859 ATCTCGGACAACTCAGCTGAGAACTTGGCACTGGTGAACAGCATGTATGATGGCTCTC 918
Db 781 ATCTCGGACAACTCAGCTGAGAACTTGGCACTGGTGAACAGCATGTATGATGGCTCTC 840

QY 919 CAAGTGGGGCCGCTCTGGCCCTACCGTACGCTGAGCTTGAGSACATCCCGAACCTCGAGAT 978
DB 841 CAAGTGGGGCCGCTCTGGCCCTACCGTACGCTGAGCTTGAGSACATCCCGAACCTCGAGAT 900
QY 979 CTCAGCCTCTGAGCTGGCGCCGCAAGGAGGCGAGATCGAGATTTTCAGGACATCTCTG 1038
DB 901 CTCAGCCTCTGAGCTGGCGCCGCAAGGAGGCGAGATCGAGATTTTCAGGACATCTCTG 960
QY 1039 CAGCGGAGTGTTCAGGACTGAGCCACCTTTCCCGAAAGTTTCACCGAGTGGTGTATGGG 1098
DB 961 CAGCGGAGTGTTCAGGACTGAGCCACCTTTCCCGAAAGTTTCACCGAGTGGTGTATGGG 1020
QY 1099 CCTGTCCGGGTGCTGTATGAACTGTGCTTCTGTGGAACAGTGTGAGGAGAACTCAGTG 1158
DB 1021 CCTGTCCGGGTGCTGTATGAACTGTGCTTCTGTGGAACAGTGTGAGGAGAACTCAGTG 1080
QY 1159 CTGAGATCATTTGCTTTTCAATGCAAGAGCCCGACACCGAAATGGTGTGTTTGGAG 1218
DB 1081 CTGAGATCATTTGCTTTTCAATGCAAGAGCCCGACACCGAAATGGTGTGTTTGGAG 1140
QY 1219 CCCCTGAACAACTGCTGAGCGGAAATGGGATCTGCTCATCTCCCAAGTTCTTCTTAAAC 1278
DB 1141 CCCCTGAACAACTGCTGAGCGGAAATGGGATCTGCTCATCTCCCAAGTTCTTCTTAAAC 1200
QY 1279 TTCCTGTGAATCTGATCTAATGTTCAATCTTCAACCGCTGTGCTACCATCAGCCTACC 1338
DB 1201 TTCCTGTGAATCTGATCTAATGTTCAATCTTCAACCGCTGTGCTACCATCAGCCTACC 1260
QY 1339 CTGAAGAGCAGGCGGCCCTCAGCTGAAGCGGAGTTGAAATCGATGCTGTGAGC 1398
DB 1261 CTGAAGAGCAGGCGGCCCTCAGCTGAAGCGGAGTTGAAATCGATGCTGTGAGC 1320
QY 1399 GGCACATCTTATCTGCTAGGGGGATCTACCTCTCGTGGGCCAGCTGTGTACTTC 1458
DB 1321 GGCACATCTTATCTGCTAGGGGGATCTACCTCTCGTGGGCCAGCTGTGTACTTC 1380
QY 1459 TGGCGGCGCCAGTGTTCATCTGATCTCGTTTCATAGACAGCTACTTTGAAATCCTCTTC 1518
DB 1381 TGGCGGCGCCAGTGTTCATCTGATCTCGTTTCATAGACAGCTACTTTGAAATCCTCTTC 1440
QY 1519 CTGTTCCAGGCCCTGCTCAGAGTGGTGTCCAGTGTCTGTGTTTCTTGGCCATCAGTGG 1578
DB 1441 CTGTTCCAGGCCCTGCTCAGAGTGGTGTCCAGTGTCTGTGTTTCTTGGCCATCAGTGG 1500
QY 1579 TACCTGCCCTGTGTGTCTGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1638
DB 1501 TACCTGCCCTGTGTGTCTGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560
QY 1639 CGTGGCTTCCAGCACACAGGCATCTACAGTGTCTATGATCCAGAAAGTTCATCTGCGGGAC 1698
DB 1561 CGTGGCTTCCAGCACACAGGCATCTACAGTGTCTATGATCCAGAAAGTTCATCTGCGGGAC 1620
QY 1699 CTGCTGCTCTCTCTGATCTACTAGTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1758
DB 1621 CTGCTGCTCTCTCTGATCTACTAGTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1680
QY 1759 AGCTGAGCCAGGAGGCTTGGCGCCCGGAGCTCTACAGGCCCAATGCCACAGTCA 1818
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QY 1819 GTGAGCCCATGGAGGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1878
DB 1741 GTGAGCCCATGGAGGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1800
QY 1879 GAAGCCTCTTGGAGCTCTTCAAAATTCACATCGGCAATGGGCGAGCTGGGCTTCCAGGAG 1938
DB 1801 GAAGCCTCTTGGAGCTCTTCAAAATTCACATCGGCAATGGGCGAGCTGGGCTTCCAGGAG 1860
QY 1939 CAGCTGACATTCGCGGCGATGCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 1998
DB 1861 CAGCTGACATTCGCGGCGATGCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 1920
QY 1999 ATCTGTGCTCAACATGCTCATCGCCCTCATGAGCGAGACCGGTCAACAGTGTGCGCACT 2058

DB 1921 ATCTGTGCTCAACATGCTCATCGCCCTCATGAGCGAGACCGTCAACAGTGTGCGCACT 1980
QY 2059 GACAGCTGGAGCATCTGGAGCTGCAAGAACCATCTCTGTCTCGGAGATGGAGATGGC 2118
DB 1981 GACAGCTGGAGCATCTGGAGCTGCAAGAACCATCTCTGTCTCGGAGATGGAGATGGC 2040
QY 2119 TATTGTGGTGTGACAGAAAGACAGCGGCGAGCTGTGATGCTGACCGTTGGCACTAAGCA 2178
DB 2041 TATTGTGGTGTGACAGAAAGACAGCGGCGAGCTGTGATGCTGACCGTTGGCACTAAGCA 2100
QY 2179 GATGGAGCCCGAGATGAGCGCTGTGCTTCAAGGTGAGGAGGTGAATGGGCTTCATGG 2238
DB 2101 GATGGAGCCCGAGATGAGCGCTGTGCTTCAAGGTGAGGAGGTGAATGGGCTTCATGG 2160
QY 2239 GAGCAGACGCTGCTTACGCTGTGTGAGGACCCGCTCAGGGCAGGTGCTTCCGAACTCTC 2298
DB 2161 GAGCAGACGCTGCTTACGCTGTGTGAGGACCCGCTCAGGGCAGGTGCTTCCGAACTCTC 2220
QY 2299 GAGAACCTGTCTGCTGCTTCCCTCCCAAGGAGGATGAGATGCTGCTCTGAGGAAAC 2358
DB 2221 GAGAACCTGTCTGCTGCTTCCCTCCCAAGGAGGATGAGATGCTGCTCTGAGGAAAC 2280
QY 2359 TATGTGCCGCTCAGCTCTCTCAGTCCCACTGATGAGGCCAGATGAGCAGGAGCCAGAG 2418
DB 2281 TATGTGCCGCTCAGCTCTCTCAGTCCCACTGATGAGGCCAGATGAGCAGGAGCCAGAG 2340
QY 2419 GACAGACAGAGGATCTTCCACCACTGCTGCTGCTCT 2458
DB 2341 GACAGACAGAGGATCTTCCACCACTGCTGCTGCTCT 2380

RESULT 4
US-09-978-303-35
; Sequence 35, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-303-35

Query Match 96.3%; Score 2378.4; DB 3; Length 2380;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2379; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTGGAGACA 138
DB 1 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTGGAGACA 60
QY 139 TTAGATGGAGCCCAAGAGATGCTCTGAGCGGACAGAGAAAGCTGGATTTTGGAGC 198
DB 61 TTAGATGGAGCCCAAGAGATGCTCTGAGCGGACAGAGAAAGCTGGATTTTGGAGC 120
QY 199 GGGCTGCTCTCTCTAGGATGACCTCACCTCCAGGCGAGGACCGGAAATTCGCCCTTCAGATA 258

QY 2419 GACAGAGCAGAGATCTTTCCAAACCATCTGCTGGCTCT 2458
|||||
Db 2341 GACAGAGCAGAGGATCTTTCCAAACCATCTGCTGGCTCT 2380

RESULT 5

US-09-149-476-191
; Sequence 191, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: PZ002PI
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
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; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,617
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; EARLIER APPLICATION NUMBER: 60/047,503
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; EARLIER APPLICATION NUMBER: 60/047,596
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,632

; EARLIER FILING DATE: 1997-05-23
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
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; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
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; EARLIER APPLICATION NUMBER: 60/056,893
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; EARLIER APPLICATION NUMBER: 60/056,878
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; EARLIER APPLICATION NUMBER: 60/056,882
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; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
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; EARLIER APPLICATION NUMBER: 60/056,636
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,874
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,910
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,864
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,631
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,845
; EARLIER FILING DATE: 1997-08-22

QY 1220 CCCTGAACAACACTGCTGAGCGGAAATGGGATCTGCTCATCCCAAGTTCTTCTTAAACT 1279
Db 1517 CCCTGAACAACACTGCTGAGCGGAAATGGGATCTGCTCATCCCAAGTTCTTCTTAAACT 1576
QY 1280 TCCTGTGTAACTCTGATCTACATGTTCACTTTCACCGTGTGCTTACCATCAGCTACCC 1339
Db 1577 TCCTGTGTAACTCTGATCTACATGTTCACTTTCACCGTGTGCTTACCATCAGCTACCC 1636
QY 1340 TGAAGAAGCAGCGCCCTCCCTCACCTGAAAGCGAGGTTGAAACTTCCATGCTGTGACGG 1399
Db 1637 TGAAGAAGCAGCGCCCTCCCTCACCTGAAAGCGAGGTTGAAACTTCCATGCTGTGACGG 1696
QY 1400 GGCACATCTTATCTGCTAGGGGGAATCTACTCTCTGCTGGGCGAGCTGTGGTACTTCT 1459
Db 1697 GGCACATCTTATCTGCTAGGGGGAATCTACTCTCTGCTGGGCGAGCTGTGGTACTTCT 1756
QY 1460 GCGCGCGCCAGCTGTTCACTCGATCTCGTTTCATAGACAGCTACTTTGAAATCTCTTCC 1519
Db 1757 GCGCGCGCCAGCTGTTCACTCGATCTCGTTTCATAGACAGCTACTTTGAAATCTCTTCC 1816
QY 1520 TGTTCAGGCGCTGCTCACAGTGTGCTCCAGGTGCTGTTTCTGGCCATCGAGTGT 1579
Db 1817 TGTTCAGGCGCTGCTCACAGTGTGCTCCAGGTGCTGTTTCTGGCCATCGAGTGT 1876
QY 1580 ACTGCCCCCTGTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1639
Db 1877 ACTGCCCCCTGTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1936
QY 1640 GTGGTTCACGACACAGGATCTACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1699
Db 1937 GTGGTTCACGACACAGGATCTACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1978
QY 1700 TGCTGCGCTTCTTCTGATCTACTTACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1759
Db 1979 -----AGCCCTGCTGA 1989
QY 1760 GCTTGAGCCAGGAGGCTTGGCGCCCGAAGTCTCTACAGGCCCCCAATGCCACAGAGTCTAG 1819
Db 1990 GCTTGAGCCAGGA -NNTTGGCGCCCGAAGTCTCTACAGGCCCCCAATGCCACAGAGTCTAG 2048
QY 1820 TGCAGCCATGAGGAGCAGAGACAGAGGCAACGGGGCCAGTACAGGGGTATCTCG 1879
Db 2049 TGCAGCCATGAGGAGCAGAGACAGAGGCAACGGGGCCAGTACAGGGGTATCTCG 2108
QY 1880 AAGCCTCTTGGAGCTCTTCAATTCACCATCGCATGGGCGAGCTGGCTTCCAGGAGC 1939
Db 2109 AAGCCTCTTGGAGCTCTTCAATTCACCATCGCATGGGCGAGCTGGCTTCCAGGAGC 2168
QY 1940 AGCTGCACTTCCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1999
Db 2169 AGCTGCACTTCCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2228
QY 2000 TCCTGTGCTCAACATGCTCATGCCCTCATAGAGCAGACCGTCAACAGTGTGCGCACTG 2059
Db 2229 TCCTGTGCTCAACATGCTCATGCCCTCATAGAGCAGACCGTCAACAGTGTGCGCACTG 2288
QY 2060 ACAGCTGGAGCATCTGGAAGCTGAGAAAGCCATCTCTGCTGGAGATGAGATGGCT 2119
Db 2289 ACAGCTGGAGCATCTGGAAGCTGAGAAAGCCATCTCTGCTGGAGATGAGATGGCT 2348
QY 2120 ATTGGTGGTGCAGGAAGCAGCGGCGAGTGTGATGCTGACCTGGCTGACCTAAGCCAG 2179
Db 2349 ATTGGTGGTGCAGGAAGCAGCGGCGAGTGTGATGCTGACCTGGCTGACCTAAGCCAG 2408
QY 2180 ATGGCAGCCGATAGCGCTGTGCTTACGGGTGAGGAGGTGAATCGGGCTTCAATGGG 2239
Db 2409 ATGGCAGCCGATAGCGCTGTGCTTACGGGTGAGGAGGTGAATCGGGCTTCAATGGG 2468
QY 2240 AGCAGAGCTGCTTACGCTGTGTAGACACCGCTCAGGGGCGAGTGTGCTTCCGAACTCTCG 2299
Db 2469 AGCAGAGCTGCTTACGCTGTGTAGACACCGCTCAGGGGCGAGTGTGCTTCCGAACTCTCG 2528

QY 2300 AGAACCCCTGCTCTGGCTTCCCTCCCAAGGAGGATGAGGATGGTCCCTCTCAGGAAAACT 2359
Db 2529 AGAACCCCTGCTCTGGCTTCCCTCCCAAGGAGGATGAGGATGGTCCCTCTCAGGAAAACT 2588
QY 2360 ATGTGCGCGTCCAGCTCTCTCCAGTCCCACTGATGGCCCAAGATGAGGAGGCGCAGAGG 2419
Db 2589 ATGTGCGCGTCCAGCTCTCTCCAGTCCCACTGATGGCCCAAGATGAGGAGGCGCAGAGG 2648
QY 2420 ACAGAGCAGAGGATCTTTCACCAACCAACATCTGCTGGCTCTGGGCTCCCACT 2469
Db 2649 ACAGAGCAGAGGATCTTTCACCAACCAACATCTGCTGGCTCTGGGCTCCCACT 2698

RESULT 6

US-09-149-476-314
; Sequence 314, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002p1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
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; EARLIER FILING DATE: 1997-03-07
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; EARLIER APPLICATION NUMBER: 60/047,600
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; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,581
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; EARLIER APPLICATION NUMBER: 60/047,584
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; EARLIER APPLICATION NUMBER: 60/047,587
; EARLIER FILING DATE: 1997-05-23
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; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,598
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; EARLIER FILING DATE: 1997-05-23

; EARLIER APPLICATION NUMBER: 60/047,582
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; EARLIER APPLICATION NUMBER: 60/043,580
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; EARLIER APPLICATION NUMBER: 60/043,568
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,314
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; EARLIER APPLICATION NUMBER: 60/043,569
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; EARLIER APPLICATION NUMBER: 60/056,886
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; EARLIER APPLICATION NUMBER: 60/056,877
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; EARLIER APPLICATION NUMBER: 60/056,637
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; EARLIER APPLICATION NUMBER: 60/056,903
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,879
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,880
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,894
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,911
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,636
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,874
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,910

; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,864
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,631
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,845
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,892
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,761
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/047,595
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,599
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,588
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,585
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,586
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,590
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,594
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,589
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,593
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,614
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,578
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,576
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/047,501
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,670
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/056,632
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,664
; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-08-22
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; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,669
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02

Query Match 83.5%; Score 2061.8; DB 3; Length 2860;
Best Local Similarity 95.1%; Pred. No. 0;
Matches 2364; Conservative 4; Mismatches 31; Indels 86; Gaps 20;


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QY 1390 CTGCTACGGGGCCACATCTTATCTCTAGGGGGGATCTACCTCTCTGCTGGGCGCAGCTG 1449
Db 1629 CTGCTGCTGGGCCACATCTCTGATCTCTGCTTGGGGGATTTTACCTCTTACTTGGGCGCAGCTG 1688
QY 1450 TGGTACTTCTGGGGGCCACAGCTGTTTCATCTGATCTCGTTTCATAGACACTACTTTGAA 1509
Db 1689 TGGTACTTTTGGGGGCCGCGCTGTTTATCTGATCTCATTCATGACACTACTTTGAA 1748
QY 1510 ATCCTCTTCTGTTTCCAGGGCCCTGCTCACAGTGTGTCCAGGTGCTGTGTTTCCCTGGCC 1569
Db 1749 ATCCTCTTCTTCCAGGCTGCTGCTCACAGTGTGTCCAGGTGCTGTGCGCTTTCATGGAG 1808
QY 1570 ATGAGTGGTACCTGCGCCCTGCTTGTGTCTGCGTGTGTGCTGGGCTGGCTGAACTGCTT 1629
Db 1809 ACTGAATGGTACCTACCCCTGCTAGTGTATTCCTTAGTGTGCTGGGCTGGCTGAACTGCTT 1868
QY 1630 TACTATACAGTGTGCTTCCAGCACACAGGATCTACAGTGTCTATGATCCAGAAAGTCAATC 1689
Db 1869 TACTACACAGGGCTTTACAGCACAGGATCTACAGTGTCTATGATCCAGAAAGTCAATC 1928
QY 1690 CTGCGGACCTGCTGCGCTTCTTCTGATCTACTTACTTCTTCTTCTTCTTCTGCGCTT 1749
Db 1929 CTTCGAGACCTGCTCGCTTCTTCTGCTGCTCTACCTGCTCTTCTTCTTCTTCTGCTGTA 1988
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Db 1989 GCGCTAGTAGCTTGAAGCAGAGAGGCGCGAAGTCCCAAAGCCCTCGAAGATAACAATCC 2048
QY 1810 ACAGAGTCAGTGACGCCCATGAGGGACAGAGGACAGAGGCGCAAGCGGCCCATGACAGG 1869
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QY 1870 GGTATCCTGGAAGCCTCTTTGGAGCTCTTCAAAATTTCAACATCGGCATGGCGAGCTGGCC 1929
Db 2103 AGCATCTGGATGCCCTCTAGAGCTGTTCAAGTTTCAACATTTGATGGGGAGCTGGCT 2162
QY 1930 TTCAGAGCAGCTGCACTTCCGCGGCATGGTGTCTGTCTGTCTGTCTGTCTGTCTGTCTG 1989
Db 2163 TTCAGAGAACAGCTGCGCTTTTCGTGGGGTGGTCTGTCTGTCTGTCTGTCTGTCTGTCTG 2222
QY 1990 CTCACCTACATCTGTCTGCTCAACATCTCATCGCCCTCATAGCGAGACCGTCAACAGT 2049
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QY 2050 GTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCTCTGGAGATG 2109
Db 2283 GTTGTGACAACAGCTGGAGCATCTGGAAGTTGCAGAAAGCCATCTCTGTCTTGGAGATG 2342
QY 2110 GAGATGGCTATTGGTGGTG---AGGAAGACAGCGGGCAGGTGTGATGCTGACCGCTT 2166
Db 2343 GAGAATGGTTACTGTGTGTGCGGAGGAAGAAACATCGTGAAGGAGGCTGCTGAAAGTC 2402
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QY 2227 TGGGCTTATGGGAGCAGAGCTGCTTACGCTGTGTGAGGACCGCGTCAGGGGCGAGGTGTC 2286
Db 2463 TGGGCTGCTTGGGAGAGACTCTTCCACCTTATCTGAGGATCCATCAGGGCCAGGCATC 2522
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Db 2523 ACTGGTAATAAAGAAACC-----CAACCTCTAAACCGGGGAAGAACAGTGCC 2570
QY 2347 TCTGAGGAAATATGTGCGCGCTCCAGCTCTCTCCAGTCCCACTGTATGGCCCAAGTGCAGC 2406
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QY 2407 AGGAGGCCAG-AGGACAGAGCAGAGGATCTTTCCAAACCAACATCTGTGGCTCTG 2459
Db 2631 AGCAGGCTGCAGGATGGAGTAGGAATCTTCCAGCCACACAGAGGCTACTG 2684

RESULT 9
US-09-978-303-3
; Sequence 3, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2736
; TYPE: DNA
; ORGANISM: R. rattus
US-09-978-303-3
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Query Match 61.7%; Score 1522.4; DB 3; Length 2736;
Best Local Similarity 78.9%; Pred. No. 0;
Matches 1935; Conservative 0; Mismatches 466; Indels 53; Gaps 8;

QY 28 AGACAGGACCCCTTGACATCTCCATCTGCACAGAGGCTCTGGCTGGACCGGAGCCTCCT 87
Db 262 AGAGAGAACCTTTAACATCTCCATCTCTACAGAGGTTTACAGTGTAGGAGCATCTCCT 321
QY 88 CCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTTCAGGTTTGGAGACATTAGATGGA 147
Db 322 -CTCTCAGGATGACTTTCAGCTCCAGCCGCCAGCTTTCAGGCTGGAGACTTCGATGGA 380
QY 148 GSCCAAGAGAGTGGCTCTGAGCGGACAGAGGAAAGCTGATTTTGGGCGGGCTGCCT 207
Db 381 GATGAAGAGGGCAATGCTGAGGTGAACAAGGGGAAGCAGGA-----ACCGCCC 428
QY 208 CCCATGGAGTCAAGTTTCAGGGCGAGGACCGGAAATTCGCCCTCAGATAAGAGTCAAC 267
Db 429 CCCATGGAGTCAACATTCAGAGGGAGGACCGGAAATTCCTCCCTCAGATCAAGTCAAC 488
QY 268 CTCACCTACCGAAAGGA-----ACAGTGCCTCAGTCCAGCGGATCCCAAC 312
Db 489 CTCACCTTATAAAGAGACCTCTCTAAACACATTTCTGCTCCAGCCAGGAGCCAGAT 548
QY 313 CGATTTTACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCGGAGGATCTGGCT 372
Db 549 CGGTTTGAACGCTGACCGACTCTTTCAGTGTGTCTCCCGGGGTGTCCCGGAGGAGTACT 608
QY 373 GGAATTCAGAGTACTGTGAGCAAGACAGCAAGTACTCTACCGACTCGGAATACAGAG 432
Db 609 GGACTGCTAGAAATACCTGGCTGGAACAGCAAGTACTCTCACTGACTCTGCATACACAGAA 668
QY 433 GGCCTCACAGGTGAAGAGCTGCTGATGAAGGCTGTGCTGAACCTTAAGGACGGATCAAT 492
Db 669 GGCCTCACTGGAAGAGCGTGCCTGATGAAGGCTGTGCTGAACCTTTCAGGATGGGGTCAAT 728
QY 493 GCCTGCAATCTGCGCATCTGTCTGACAGGACGACAGGGAATCTTGGCAATCTCAGCCCTGGA 552
Db 729 GCCTGCAATCTGCGCATCTGTCTGACAGTGAACAGGATTCGGGCATCCCAAGCCCTCTGTC 788
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Qy	553	AATGCCAGTGCACAGATGACTATTAACGAGGCCACAGCGCTCTGCAATCGCCATTGAG	612
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Qy	613	AAGAGGAGTCTGCAGTGTGCAAGCTCCTCGTGGAGAAATGGGGCCAAATGTGCATGCCCGG	672
Db	849	AAGAGGAGCTTGCAGTGGCTGAGCTGCTGCTAGAGAAATGAGCGGATGTTTCACTCCGA	908
Qy	673	GCCTGCGGCCGCTTCTTCCAGAAAGGCCAAAGGAGCTTGCTTTTATTTTCGGTGAAGTACCC	732
Db	909	GCCTGTGGCGCTTCTTCCAAAAGCACCAAGAACTTGTTTCTATTTTGGAGAGTACCT	968
Qy	733	CTCTCTTTGGCGCTTGACCAAGAGTGGGATGTGTAAGCTACTCTCTGGAGAACCCA	792
Db	969	CTTTCTCTGGCTGGGTGCACCAAGCAGTGGGATGTGTTGACTACTCTCTGGAGAACCCA	1028
Qy	793	CACCAGCCCGCAGCCTGCAGGCCACTGACTCTCCAGGGCAACAGTCTCTGCATGCCCTA	852
Db	1029	CACCAGCCCGCAGCCTGGAGGCCACCGACTCTCTGGGCAACAGTCTCTGCATGCCCTG	1088
Qy	853	GTGATGATCTCGGACAACTCAGCTTGAGAACTTGCACTTGGTGTGACAGCATGTATGATGGG	912
Db	1089	GTAATGATGCAGATACTCGCCTGAGAACAGTGCCTGTGTGATCCAGTGTACGACGGG	1148
Qy	913	CTCCTCCAAAGCTGGGGCCGCTCTGCGCTTACCGTGCAGCTTGAGGACATCCGCAACTG	972
Db	1149	CTTCTAATAATGGGGCGCGCTCTGCGCCACTGTGCAGCTTGAGGAAATCTCCAACCA	1208
Qy	973	CAGGATCTCAGCCTCTGMACTGGCGGCCAAGGAGGGCAAGATCGAGATTTTCAGGCAC	1032
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Qy	1033	ATCCTGCAGCGGGAGTTTTCAGGACTTGAGCCA---CTTTTCCGAAAGTTCACCGAGTGG	1089
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Qy	1090	TGCTATGGGCTGTCCGGTGTCCCTGTATGACTGTGCTTCTGTGGACAGCTGTGAGGAG	1149
Db	1329	TGTTACGCTCTGTGCGGGTATCGCTGTACGACCTGTCTCTGTGGACAGCTGGGAAAG	1388
Qy	1150	AACCTCAGTGTGGAGATCATTGCCTTTTCATTGCAAGAGCCCGCACCGACCCGATGGTC	1209
Db	1389	AACCTCGTGTGGAGATCATCGCTTTTTCATTGCAAGAGCCCGCAACCGGCACCCGATGGT	1448
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Qy	1330	CAGCCTACCTGAAGAAGCAGGCCCGCCCTCACTGAAAGCGGAGGTTGMAAATCCCATG	1389
Db	1569	CAGCCTTCCCTGGATCAGCCAGCCATCCCTCTCATCAAAGCGCACTTTTGGGGAATCCATG	1628
Qy	1390	CTGCTGAGGGCCACATCTTATCCTGTAGGGGGGATCTACTCTCTCGTGGGCGAGTG	1449
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Qy	1450	TGCTACTTCTGGCGGGCCACGTGTTTCATCTGGATCTCGTTTCAATAGACAGTACTTTGAA	1509
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Qy	1510	ATCCTCTTCTGTTCAGAGGCCCTGCTGCACAGTGTGTGCCAGGTGTGTGTTCCTGGCC	1569
Db	1749	ATCCTCTTCTCTTCAAGGCTCTGCTCACAGTGTGTCCAGGTGTGTGTTCATGGAG	1808
Qy	1570	ATCGAGTGTGTACCTGCCCCCTGCTGTCTCGCGTGTGTGTGGGCTGGCTGACCTGCTT	1629
Db	1809	ACTGAATGTGTACCTTACCCCTGCTAGTGTATTCCTCTAGTGTGGGCTGGCTGAACTGCTT	1868
Qy	1630	TACTATACAGTGGCTTCCAGCACACAGGCACTTACAGTGTCTATGATTCAGAGAGTCACT	1689

RESULT 10

US-09-235-451-22

; Sequence 22, Applica
: GENERAL INFORMATION:

APPLICANT: Julius, David J.

APPLICANT: Caterina, Michael J.

APPLICANT: Brake, Anthony J.

; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING

TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED

; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF

FILE REFERENCE: 9076/084CIP

; CURRENT APPLICATION NUMBER: US/09/235,451

; CURRENT FILING DATE: 1999-01-22

; PRIOR APPLICATION NUMBER: 60/072,151

; PRIOR FILING DATE: 1998-01-22

; PRIOR APPLICATION NUMBER: 08/


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Db      411  ACCGTCAACAGTGTGGCACTGCACAGCTGGAGCTCTGGAAGCTGCAGAAAGCCATCTCT 470
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Qy      2158  CTGACCGTTGGACACTAAGCAGATGGCAGCGCCCGGATGAGCGGTGTCTTACAGGTTGAG 2217
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Db      771  AGATSCACAGAGCCAGAGACAGACAGAGGATCTTCCACCAACATCTGCTGGCTC 830
Qy      2458  TGGGTGCCAGT 2469
Db      831  TGGGTGCCAGT 842

RESULT 12
US-09-149-476-315
; Sequence 315, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
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; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
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; EARLIER APPLICATION NUMBER: 60/043,311
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; EARLIER APPLICATION NUMBER: 60/043,671
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
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; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
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; EARLIER APPLICATION NUMBER: 60/056,630
; EARLIER FILING DATE: 1997-08-22
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; EARLIER APPLICATION NUMBER: 60/056,662
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,872
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,882
; EARLIER FILING DATE: 1997-08-22
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[illegible]

Db 713 CTTCCAGTCTCTCCAGTCCAACTGATGGCCAGATGCAGCAGAGGCCAGAGCAGAGC 772
Qy 2427 AGAGGATCTTTCCAAACCAATCTGCTGGCTCTGGGCTCCCACT 2469
Db 773 AGAGGATCTTTCCAAACCAATCTGCTGGCTCTGGGCTCCCACT 815

RESULT 13

US-09-667-422-2

; Sequence 2, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2

; LENGTH: 4182

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-667-422-2

Query Match 26.8%; Score 662.4; DB 3; Length 4182;

Best Local Similarity 61.1%; Patent No. 8.8e-151;
Matches 1207; Conservative 0; Mismatches 731; Indels 36; Gaps 7;

Qy 316 TTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGCCCGAGGATCTGGCTGA 375
Db 527 TATGATCGCAGAGTATCTTTGAAGCGTCTCAGATAAATGCGCAGGATCTGGAGC 586
Qy 376 CTTCCAGAGTACTTGAGCAAGCAGCAAGTACTTCCAGCTCGGAATACACAGAGGC 435
Db 587 CTGCTGCTCTTCTCGCAGAGCAGCAAGAGCACCTCAGACACAGGTTCCAAAGCCCT 646
Qy 436 TCCACAGTAGAGTCTGATGAGGCTGTGTGACCTTGAACCTTAAGGACGAGTCAATGCC 495
Db 647 GAGACAGGGAAGACTGTCTCTGAAAGCCATGTCTCAACCTGCACGACGAGCAGACACC 706
Qy 496 TGCAATCTGCACTGTGTCAGATCGACAGGAGCTCTGCAATCTCAGCCCTCGGTAAAT 555
Db 707 ACCATCCCCTGCTCTCTGGAGATCGCGGCAACCGACAGCCCTGAAGGAGCTTGTCAAC 766
Qy 556 GCCCAGTGCACAGATGACTATTACCGAGGCCACACGCGCTCTGCACATCGCCATGAGAAG 615
Db 767 GCCAGCTACACGGACAGCTACTACAGGGCCACAGACAGCTGACATCGCCATCGAGAGA 826
Qy 616 AGGAGTCTGAGTGTGAGACTCTCTGGTGAGAAATGGGGCAATGTGCATGCGCCGGCC 675
Db 827 CGCAATATGGCCCTTCTCCAGAGAGGCCAAG--GGACTTGTCTTTATTTTGGTGTGACTACC 886
Qy 676 TGGCGCGCTTCTTCCAGAGAGGCCAAG--GGACTTGTCTTTATTTTGGTGTGACTACC 732
Db 887 CATGGGAGCTTCTTTAAGAAACCAAGGGCGGCTGGAATCTACTTTCGGTGAATCGCCC 946
Qy 733 CTCTCTTTGGCCGCTTGCAACAGCAGTGGGATGTGTTAAGCTTACCTCTCGGAGAACCCA 792
Db 947 CTGTCTCTGGCCGGTGACCAACAGCTGGGCATCTGAGTCTCTGCTGCGAATCTCC 1006
Qy 793 CACAGCCCGCAGCCTGCGAGGCCACTGACTCCAGGGCAACACAGTCTGTGATGCCCTTA 852
Db 1007 TGGCAGACGGCCGACATCAGCGCCAGGGGACTCGGTGGGCAACCGGTGTGTCAGCGCCCTG 1066
Qy 853 GTGATGATCTCGGCAACTCAGCTGAGAACTTTGCACTGTGTGACCAAGCATGTATGAGG 912
Db 1067 GTGAGGTGGCGCAACACAGCGCCGCAACACGAAAGTTTGTGACGAGCATGTACAATGAG 1126
Qy 913 CTCTCTCAAGCTGGGGCCCGCTCTGCGCTTACCGTGTGAGCTTGTGAGGACATCCCAACCTG 972

Db 1127 ATTCTGATGCTGGGGCCAAACTGCACCCGACGCTGAAGCTGAGGAGCTCACCAACAAG 1186
Qy 973 CAGGATCTCAGCCCTCTCAAGCTGGCCGCGCAAGGAGGCAAGATCGAGATTTTTCAGGCAC 1032
Db 1187 AAGGGAATGACGCCGCTGGCTCTGGCAGCTGGGACCGGGAGATCGGGTCTTTGGCTTAT 1246
Qy 1033 ATCCTGACAGCGGGAGTT-----TTTCAGGACTGAGCCACCTTTTCCCGAAAGTTTCCACCG 1086
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Qy 1087 TGGTGCTATGCGCTGTCCGGGTGTGCTGTATGACCTGGCTTCTGTGGACAGCTGTGTAG 1146
Db 1307 TGGGCTTACGGGCCCGTGCACTCTGCTGTGACGACCTGTCTGTGATCAGACCTCGCGAG 1366
Qy 1147 GAGAACTCAGTGTGGAGATCATTTGCCCTTTTCATTGCA---AGAGCCCGCAGCAGCACCGA 1203
Db 1367 AAGAACTCGGTGTGGAGGTGATCGCTTACAGCAGCAGCAGAGCCCTTAATCGCCACGAC 1426
Qy 1204 ATGCTCGTTTTTGGAGCCCTGAAACAACTGTGCGAGCGGAATGGGA---TCTGCTCATC 1260
Db 1427 ATGCTCTTGGTGGAGCCGCTGAACCGACTCTCGAGGACAAAGTGGGACAGATTCGTCAAG 1486
Qy 1261 CCCAAGTTCTTTAAACTTCTCTGTGTAATCTGATCTACATGTTTCATCTTCACGCTGT 1320
Db 1487 CGCATCTTCTACTTCAACTTCTGCTCTACTGCTGTACATGATCATCTTCACCATGCT 1546
Qy 1321 GCCTACCATCAGCCTACCTGAAAGAGCGCCGCTCTACCTGAAAGCGGAGTTGGA 1380
Db 1547 GCCTACTACAGGCC-----CGTGGATGGCTTGGCTCCCTTTAAGATGGAATAATGGA 1600
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Db 1601 GACTATTTCCAGTACTTGGAGAGATCTGTGTGTGTAGGAGAGTCTACTTCTTTTTC 1660
Qy 1441 GGCAGAGTGTGTACTTCTGGCGGCGCACCTGTTCATCTGTGATCTCGTTCATAGACAGC 1500
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Db 1721 TACAGTGAGATGCTTTTCTTCTGCACTGCTTTCATGCTGTGGCCACCGTGTGTGTAC 1780
Qy 1561 TTCTGCGCATCGAGTGTGTACTGCGCCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1620
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Qy 1621 AACCTGTTTACTATACAGCTGGCTTCCAGCACACAGGCACTACAGTGTATCATCATCCAG 1680
Db 1841 AACATGCTCTACTACACCCCGGTTTCCAGAGATGGGCATCTATGCGCTCATGATAG 1900
Qy 1681 AAGGTCACTCTGCGGACCTGTGCGCTTCTTCTGATCTTACTTACTTCTTCTTCTTCTGGC 1740
Db 1901 AAGATGATCTGAGAGACCTGTGCGCTTTCATGTTGTCTTACATCGTCTTCTTGTTCGG 1960
Qy 1741 TTGCTGTAGCCCTGTGTGAGCTGTGAGCAGAGGCTTGGCGCCCGCAGAGCTCTTACAGGC 1800
Db 1961 TTTTCCACAGCGGTGTGTGAGCTGTATGGAAGCGGGAAGTGAATGACTCCCTGCGCTGTG 2020
Qy 1801 CCCAATGCCACAGAGTCAGTGCAGCCCATGAGGAGCAGGAGGACGAGGCAACGGGGCC 1860
Db 2021 TCCACGTC-----GCACAGGTGGCGGGGCTCTGCTGAGGCCCGCCGATAGC 2068
Qy 1861 CAGTACAGGGGTA TCTTGGAGCCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGC 1920
Db 2069 TCCCTACAAACAGCCTGTACTCCACCTGCTGGAGCTGTTCAGTTCACCATCGGCATGGGC 2128
Qy 1921 GAGTGGCTTCCAGAGCAGCTGTGACTTCCCGCGGCATGTGTGTGTGTGTGTGTGTGTGT 1980
Db 2129 GACTGGAGTTCACTGAGAACTATGACTTCAAGGCTGTCTTCATCATCTCTGCTGTGTG 2188
Qy 1981 TAGGTGCTGTCACTACATCTGCTGCTCAACATGCTCATCGCCCTCATGAGGAGACC 2040
Db 2189 TATGTAATCTCACCTACATCT 2248

QY 1851 CAGTACAGGGGTATCTCTGGAAGCCTCTTGGAGCTCTTCAAATTCACCATCGGATGGC 1920
Db |||||
2069 TCCTACAAACAGCCTGTACTCCACCTGCTGGAGCTGTTCAAAGTTTCAACCATGGCATGGC 2128
QY 1921 GAGCTGGCTTTCCAGGAGCAGTGCACCTTCCGCGCATGGTGTCTGCTGCTGCGCC 1980
Db |||||
2129 GACCTGGAGTTCACTGAGAACTATGACTTCAAGGCTGTCTCATCATCTCTGCTGCGCC 2188
QY 1981 TACGTGTGCTCACCTACATCTCTGCTCAACATGTCTCATCGCCCTCATGAGCGAGACC 2040
Db |||||
2189 TATGTAAATCTCACCTACATCTCTGCTCAACATGTCTCATCGCCCTCATGGTGAAGT 2248
QY 2041 GTCAACAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCGAAGAACCATCTCTGT 2100
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2249 GTCAACAGATCGCACAGGAGAGCAAGAACATCTGGAAGCTGCGAGAGGCCATCACCATC 2308
QY 2101 CTGAGAGTGGAGATGGCTATTGTGTGTCAGGAGAGAG---CAGCGGCGAGGTGTGATG 2157
Db |||||
2309 CTGACACGGAGAAAGAGCTTCCCTTAAAGTGCATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2368
QY 2158 CTGACCGTTGGCACTTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGCTTCAGGGTGGAG 2217
Db |||||
2369 CTGACAGTGGGGTACACACCTGTATGGCAAGCAAGCACTACCGTGTGCTTCAGGGTGGAC 2428
QY 2218 GAGGTGAATCGGCTTCAATGGAGCAGACGCTGCTAGCGTGTGTGAGGACCCG 2271
Db |||||
2429 GAGGTGAATCGGACCACTGGAACCAACCAAGTGGGCATCATCAACGAAGACCCG 2482

RESULT 15
US-09-667-422-1
; Sequence 1, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krawse, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4203
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-667-422-1

Query Match 26.8%; Score 662.4; DB 3; Length 4203;
Best Local Similarity 61.1%; Pred. No. 8.8e-151;
Matches 1207; Conservative 0; Mismatches 731; Indels 36; Gaps 7;

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QY 376 CTTCCAGGTACCTGAGCAAGACAGCAAGTACTCCACCGACTCGGAATACACAGAGGC 435
Db |||||
610 CTGCTGCTCTCTCTGCAAGAGAGCAAGAGCACCTCACAGAACCGAGTTCAAGACCCCT 669
QY 436 TCCACAGGTAAAGAGCTGCTGATGAAGGCTGTGCTGAACCTTAAGACGAGGTCAATGCC 495
Db |||||
670 GAGACAGGGAAGACCTGCTGCTGAAGCCATGCTCAACCTGCAACGACGACAGACACC 729
QY 496 TGAATTCGCACTGTGCGAGATGCAAGGAGCTCTGGCAATCTCTAGCCCCCTGGTAAAT 555
Db |||||
730 ACCATCCCCCTGCTCTGAGATCGCGCGCAAAACGACAGACCTGGAAGGAGCTTGTCAAC 789
QY 556 GCCCAGTGCAGATGATTAACCGAGGCCACAGCGCTCTGCACATCGCCATGAGAAG 615
Db |||||
790 GCCAGCTACACGCAAGCTACTCAAGGGCCACAGACGACTGCACATCGCCATCGAGAGA 849

QY 616 AGGAGTCTGCAAGTGTGTGAAGCTCTCTGTGGAGAAATGGGGCAATGTGATGATCCCGGGCC 675
Db |||||
850 CGCAACATGGCCCTGGTGACCTCTCTGTGGAGAACGAGCAGAGCTCGAGGCTCGGGCC 909
QY 676 TGGCGCGCTTCTTCCAGAAAGGGCCAAG---GGAATTGCTTTTATTTTCGGTGAAGTACCC 732
Db |||||
910 CATGGGAGCTTCTTTAAGAAACCAAGGGCGGCTTGAATTTCTACTTCGGTGAATCGGCC 969
QY 733 CTCTCTTTGGCGCTTGCCACCAAGCAGTGGGATGTGGTAACTACCTCTCTCGAGAACCCA 792
Db |||||
970 CTGTCCCTGGCGGTGCAACACAGCTGGGATCTGTGAAGTTCTCTCTGCGAAGATCTC 1029
QY 793 CACAGCCCGCAGCCTGCGAGCCACTGACTCCAGGGCAACACAGTCTCTGATGCCCTTA 852
Db |||||
1030 TGGCAGACGGCCGACATACAGCGCCAGGACTCGGTGGGCAACACGGTGTGACGCCCTG 1089
QY 853 GTGATGATCTCGGCAACTCAGCTGAGAACATTCACATCTGGTGAACAGCATGTATGATGG 912
Db |||||
1090 GTGAGGTGGCCGCAACACCGGCCCAACACGAAGTTTGTGACGAGCATGTACAAATGAG 1149
QY 913 CTCCTCCAAGCTGGGGCCCGCTCTGCCCTTACCGTGCAGCTTGAAGGACATCCGCAACCTG 972
Db |||||
1150 ATTCTGATGTGGGGCCAAACTGCACCCGACGCTGAAGCTGGAAGAGCTCACCAACAG 1209
QY 973 CAGGATCTACGCTCTGAAGCTGGCCGCCAAGAGGGCAAGATCGAGATTTTCAGGCAC 1032
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1210 AAGGGAATGACGCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGTCTTGGCCTAT 1269
QY 1033 ATCTGACGCGGAGTT-----TTGAGACTGAGCCACCTTTTCCGAAAGTTTCAAGCAG 1086
Db |||||
1270 ATTCTCAGCGGGAGATCCAGGAGCCCGAGTGCAGGCACTGTCCAGGAAGTTCAAGCAG 1329
QY 1087 TGGTGTATGCGCTGTCCGGTGTCTGTATGACCTGGCTTCTGTGAGAGTGTGAG 1146
Db |||||
1330 TGGGCTTACGCGCCCGTGCACTCTCTGTGACAGCTGTCTGCACTGACACCTGCGAG 1389
QY 1147 GAGAACTCAGTGTGAGATCATTTGCCCTTTTCATTGCA---AGAGCCCGCACCGAGGTTGGA 1203
Db |||||
1390 AAGAACTCGTGTGGAGGTGATCGCTACAGCAGCAGCAGAGACCCCTTAATCGCACGAC 1449
QY 1204 ATGGTGTGTTGAGAGCCCTGAAACAAACTCTGTGAGCGGCAAAATGGGA---TCTGCTCATC 1260
Db |||||
1450 ATGCTCTTGGTGGAGCGCTGAAACCGACTCTGTGAGCAAGTGGGACAGATTCGTCAAG 1509
QY 1261 CCAAGTTCTTTTAAACTTCTGTGTAACTGTATCTGATCTACATGTTTCACTTTCACCGCTGT 1320
Db |||||
1510 CGCATCTTCTACTTCAACTTCTCTGCTCTGCTGTACATGATCATCTTTCACCATGGCT 1569
QY 1321 GCCTACCATCAGCCTTACCTGAAAGACGAGCGCGCCCTCACCTGAAAGCGGAGTTGGA 1380
Db |||||
1570 GCCTACTACAGGCC-----CGTGGATGGCTTGCCTCCCTTAAAGATGGAAGAAATTTGA 1623
QY 1381 AACTCAATGCTGAGCGGCCACATCTTATCTGTCTAGGGGGATCTTACTCTCTGCT 1440
Db |||||
1624 GACTATTTCCGAGTACTTGGAGAGATCTCTGTGTGTAGGAGGAGTCTACTTCTTTTTC 1683
QY 1441 GGCCAGCTGTGTACTTCTGGCGGCCACGCTGTTCATCTGGATCTCTGTTTCATAGACAGC 1500
Db |||||
1684 CGAGGATTCAGTATTTCTCTGAGAGCGCGCCCTCGATGAAGACCCCTGTTTGTGAGACAGC 1743
QY 1501 TACTTTGAAATCTCTTCTGTTCCAGGCCCTGTCTACAGTGTGTGCCAGGTGCTGTGT 1560
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1744 TACAGTGAGTGTCTTTCTTCTGAGTCACTGTTCATGTGTCGCCACCGTGGTGTGTATC 1803
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1804 TTCAAGCCACTCAAGGAGTATGTGGCTTCCATGTATTTCTCTCTGGCTTGGGCTGGAC 1863
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1864 AACATGCTCTACTACACCGCGGTTTTCCAGCAGATGGGCATCTATGCGGTCATGATAGAG 1923
QY 1681 AAGGTCACTCTGGGAGACCTGTGCGCTTCTCTGATCTACTTGTAGTCTTCTCTCTTTCGGC 1740

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OM protein - protein search, using sw model

Run on: February 18, 2006, 03:36:16 ; Search time 49 Seconds
(without alignments)
1289.066 Million cell updates/sec

Title: US-09-445-614B-2

Perfect score: 4004

Sequence: 1 MTSPPSPVFRLETLGGQE.....EEDGASEENVVQLQSN 764

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/1/1aa/5_COMB.pep.*
- 2: /cgn2_6/ptodata/1/1aa/6_COMB.pep.*
- 3: /cgn2_6/ptodata/1/1aa/H_COMB.pep.*
- 4: /cgn2_6/ptodata/1/1aa/PCUTUS_COMB.pep.*
- 5: /cgn2_6/ptodata/1/1aa/RE_COMB.pep.*
- 6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4004	100.0	764	2	US-09-235-451-36
2	4004	100.0	764	2	US-09-978-303-36
3	3988.5	99.6	889	2	US-09-132-316-2
4	3988.5	99.6	889	2	US-10-137-316-2
5	3051.5	76.2	761	2	US-09-235-451-4
6	3051.5	76.2	761	2	US-09-978-303-4
7	3036.5	75.8	727	2	US-09-235-451-23
8	3036.5	75.8	727	2	US-09-978-303-23
9	1689	42.2	843	2	US-09-235-451-25
10	1689	42.2	843	2	US-09-978-303-25
11	1652	41.3	838	2	US-09-235-451-2
12	1652	41.3	838	2	US-09-132-316-3
13	1652	41.3	838	2	US-09-667-422-9
14	1652	41.3	838	2	US-09-978-303-2
15	1652	41.3	838	2	US-10-246-435-9
16	1652	41.2	839	2	US-10-137-316-3
17	1651.5	41.2	839	2	US-09-667-422-4
18	1651.5	41.2	839	2	US-10-246-435-4
19	1651.5	41.1	839	2	US-09-197-636-2
20	1644.5	41.1	839	2	US-09-197-636-8
21	1644.5	41.1	839	2	US-09-235-451-34
22	1644.5	41.1	839	2	US-09-978-303-34
23	1639.5	40.9	839	2	US-09-533-220A-2
24	1639.5	40.9	839	2	US-09-949-016-6937
25	1639.5	40.9	839	2	US-10-128-853-2
26	1638.5	40.9	839	2	US-09-197-636-4
27	1486	37.1	798	2	US-09-949-016-9926

28	1471	36.7	871	2	US-09-500-123-7	Sequence 7, Appli
29	1440	36.0	279	2	US-09-149-476-500	Sequence 500, App
30	1298.5	32.4	742	2	US-09-500-123-12	Sequence 12, Appli
31	1281	32.0	811	2	US-09-500-123-9	Sequence 9, Appli
32	969	24.2	511	2	US-09-667-422-5	Sequence 5, Appli
33	969	24.2	511	2	US-10-246-435-5	Sequence 5, Appli
34	634	15.8	725	2	US-09-350-457A-2	Sequence 2, Appli
35	607.5	15.2	727	2	US-09-350-457A-4	Sequence 4, Appli
36	430.5	10.8	511	2	US-09-759-143-909	Sequence 909, App
37	430.5	10.8	511	2	US-10-012-896-909	Sequence 909, App
38	274	6.8	57	2	US-09-235-451-15	Sequence 15, Appl
39	274	6.8	57	2	US-09-978-303-15	Sequence 15, Appl
40	272	6.8	232	2	US-09-149-476-623	Sequence 623, App
41	247	6.2	71	2	US-09-235-451-14	Sequence 14, Appl
42	247	6.2	71	2	US-09-978-303-14	Sequence 14, Appl
43	225	5.6	1709	2	US-09-352-812A-6	Sequence 6, Appli
44	223.5	5.6	978	2	US-09-949-016-9882	Sequence 9882, Ap
45	215	5.4	974	2	US-09-949-016-11563	Sequence 11563, A

ALIGNMENTS

RESULT 1

US-09-235-451-36

; Sequence 36, Application US/09235451

; GENERAL INFORMATION:

; APPLICANT: Julius, David J.

; APPLICANT: Caterina, Michael J.

; APPLICANT: Brake, Anthony J.

; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING

; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED

; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF

; FILE REFERENCE: 9076/084CIP

; CURRENT APPLICATION NUMBER: US/09/235,451

; PRIOR FILING DATE: 1999-01-22

; PRIOR FILING DATE: 1998-01-22

; PRIOR FILING DATE: 1997-08-20

; PRIOR FILING DATE: 1997-08-20

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 36

; LENGTH: 764

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-235-451-36

Query Match 100.0%; Score 4004; DB 2; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MTSPSSPVFRLETLGGQGDSEADRGKLDGSGLPMPESQFGEDRKFPQIRVNLY	60
Db	1	MTSPSSPVFRLETLGGQGDSEADRGKLDGSGLPMPESQFGEDRKFPQIRVNLY	60
Qy	61	RKGTGASQPPNFRDRDLFNANVRGVPEDLAGLPEYLSKYLTDSEYTEGSTGTCL	120
Db	61	RKGTGASQPPNFRDRDLFNANVRGVPEDLAGLPEYLSKYLTDSEYTEGSTGTCL	120
Qy	121	MKAVLNKDGVNACILPLLIQIDRDSGNPQLVNAQCTDDYRGHSAHLIAIEKRSLOCVK	180
Db	121	MKAVLNKDGVNACILPLLIQIDRDSGNPQLVNAQCTDDYRGHSAHLIAIEKRSLOCVK	180
Qy	181	LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVSVYLLNPHQASLOA	240
Db	181	LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVSVYLLNPHQASLOA	240
Qy	241	TDSQGNVTALVMIWISDNSAENALVTSMYDGLLOAGARLCPTVQLEDINLQDLTPLK	300
Db	241	TDSQGNVTALVMIWISDNSAENALVTSMYDGLLOAGARLCPTVQLEDINLQDLTPLK	300
Qy	301	AAKEGKTEIFRHLIQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF	360

Db 301 AAKEGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
Qy 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
Db 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVQOLWYFWRHRVFIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVQOLWYFWRHRVFIWISFIDSYPEILFLFOALL 480
Qy 481 TVVSQVLCFLAIEWYLPPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Db 481 TVVSQVLCFLAIEWYLPPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Qy 541 IYLVFLFGFAVALVLSQEAWRPEA PTGPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEA PTGPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Qy 601 FKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTGPDGSPDERWCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTGPDGSPDERWCFRVEEVNWSWEQTLPT 720
Qy 721 LCEDPSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLLQSN 764
Db 721 LCEDPSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLLQSN 764

RESULT 2

US-09-978-303-36
; Sequence 36 Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; PRIOR FILING DATE: 2001-10-15
; PRIOR FILING DATE: 1999-01-22, 451
; PRIOR FILING DATE: 1998-01-22, 151
; PRIOR FILING DATE: 1997-08-20, 461
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-303-36

Query Match 100.0%; Score 4004; DB 2; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPPSSPVPRLETLDGGQEDGSEADRGKLDGSGLPMPESQFGEDRKFAPOIRVNLNY 60
Db 1 MTSPPSSPVPRLETLDGGQEDGSEADRGKLDGSGLPMPESQFGEDRKFAPOIRVNLNY 60
Qy 61 RKGTSQDPNFRDRDLFNASRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Db 61 RKGTSQDPNFRDRDLFNASRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVLWLDKGVNACILPLLQIDRDSGNPQLVNAQCTDDYYRHSALHIAIEKRSLQCCK 180

Db 121 MKAVLWLDKGVNACILPLLQIDRDSGNPQLVNAQCTDDYYRHSALHIAIEKRSLQCCK 180
Qy 181 LLVENGANVHARACRFFQKGQCTCFYFGELPLSLAACTKQMDVSYLLENPHQPASLOA 240
Db 181 LLVENGANVHARACRFFQKGQCTCFYFGELPLSLAACTKQMDVSYLLENPHQPASLOA 240
Qy 241 TDSQGNVTLHALVMSIDNSAENIALVTSYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Qy 301 AAKEGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
Db 301 AAKEGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
Qy 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
Db 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVQOLWYFWRHRVFIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVQOLWYFWRHRVFIWISFIDSYPEILFLFOALL 480
Qy 481 TVVSQVLCFLAIEWYLPPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Db 481 TVVSQVLCFLAIEWYLPPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Qy 541 IYLVFLFGFAVALVLSQEAWRPEA PTGPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEA PTGPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Qy 601 FKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTGPDGSPDERWCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTGPDGSPDERWCFRVEEVNWSWEQTLPT 720
Qy 721 LCEDPSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLLQSN 764
Db 721 LCEDPSGAGVPRTLENPVLASPPKEDGDGASEENYVPVQLLQSN 764

RESULT 3

US-09-132-316-2
; Sequence 2 Application US/09132316B
; Patent No. 6444440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488, 1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 889
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-132-316-2

Query Match 99.6%; Score 3988.5; DB 2; Length 889;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 MTSPPSSPVPRLETLDGGQEDGSEADRGKLDGSGLPMPESQFGEDRKFAPOIRVNLNY 60

Db 127 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPQIRVNLNY 186
Qy 61 RKGTCASQDPNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 187 RKGTCASQDPNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 246
Qy 121 MKAVLNLDGYNACILPQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 180
Db 247 MKAVLNLDGYNACILPQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 306
Qy 181 LLVENGANVHARACGRFFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 240
Db 307 LLVENGANVHARACGRFFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 366
Qy 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDITPLKL 300
Db 367 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDITPLKL 426
Qy 301 AAKGKIEIFRHILQREFSGLSLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIITAF 360
Db 427 AAKGKIEIFRHILQREFSGLSLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIITAF 486
Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKKAA 420
Db 487 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 545
Qy 421 PHLKAEGVNSMLLTGHILILGGIYLLVQWYFWRHVFVWISFIDSYPFELFLQALL 480
Db 546 PHLKAEGVNSMLLTGHILILGGIYLLVQWYFWRHVFVWISFIDSYPFELFLQALL 605
Qy 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRLFL 540
Db 606 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRLFL 665
Qy 541 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 666 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEGDEGNGAQYRGILEASLEL 725
Qy 601 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 660
Db 726 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 785
Qy 661 KLOKAIISVLEMEYNGYWCCKKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 720
Db 786 KLOKAIISVLEMEYNGYWCCKKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 845
Qy 721 LCEDPGAGVPRTLNPLVSPKPEDGSEENYVPVQLLQSN 764
Db 846 LCEDPGAGVPRTLNPLVSPKPEDGSEENYVPVQLLQSN 889

RESULT 4

US-10-137-316-2
; Sequence 2, Application US/10137316
; Patent No. 6906178
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patent In Ver. 3.1
; SEQ ID NO 2
; LENGTH: 889
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-137-316-2

Query Match

99.6%; Score 3988.5; DB 2; Length 889;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 1 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPQIRVNLNY 60
Db 127 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPQIRVNLNY 186
Qy 61 RKGTCASQDPNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 187 RKGTCASQDPNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 246
Qy 121 MKAVLNLDGYNACILPQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 180
Db 247 MKAVLNLDGYNACILPQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 306
Qy 181 LLVENGANVHARACGRFFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 240
Db 307 LLVENGANVHARACGRFFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 366
Qy 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDITPLKL 300
Db 367 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDITPLKL 426
Qy 301 AAKGKIEIFRHILQREFSGLSLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIITAF 360
Db 427 AAKGKIEIFRHILQREFSGLSLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIITAF 486
Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKKAA 420
Db 487 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 545
Qy 421 PHLKAEGVNSMLLTGHILILGGIYLLVQWYFWRHVFVWISFIDSYPFELFLQALL 480
Db 546 PHLKAEGVNSMLLTGHILILGGIYLLVQWYFWRHVFVWISFIDSYPFELFLQALL 605
Qy 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRLFL 540
Db 606 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRLFL 665
Qy 541 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 666 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEGDEGNGAQYRGILEASLEL 725
Qy 601 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 660
Db 726 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 785
Qy 661 KLOKAIISVLEMEYNGYWCCKKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 720
Db 786 KLOKAIISVLEMEYNGYWCCKKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 845
Qy 721 LCEDPGAGVPRTLNPLVSPKPEDGSEENYVPVQLLQSN 764
Db 846 LCEDPGAGVPRTLNPLVSPKPEDGSEENYVPVQLLQSN 889

RESULT 5

US-09-235-451-4
; Sequence 4, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20

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; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 761
; TYPE: PRT
; ORGANISM: R. rattus
US-09-235-451-4

Query Match          76.2%; Score 3051.5; DB 2; Length 761;
Best Local Similarity 77.7%; Pred. No. 3.4e-279;
Matches 598; Conservative 62; Mismatches 93; Indels 17; Gaps 7;

QY 1 MTSPPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKPAPQIRVNLNY 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MTSASSPPAPRLTSDGDEGNAEVNKGQE----PPMESPPQREDRNSSPQIKVNLNF 56
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 ----RKGTGA-SQPDNRFRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYEYEGST 115
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 IKRPPKNTSAPSQQEPRDRDRLEFVSVSRGVPPEUTGLLEYLRWNSKYLTDSAYTEGST 116
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 116 GKTCLMKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRS 175
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 117 GKTCLMKAVLNLDGYNACIMPLQLIDKDSGNPKPLVNAQCTDEFYQGHSAHIAIEKRS 176
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 176 LQCVKLLVNGANVHARACGRPFQKGQGTCTFYFGEPLSLAACTKWQDVVSYLLENPHQP 235
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 177 LQCVKLLVNGADVHLRACGRPFQKHQGTCTFYFGEPLSLAACTKWQDVVSYLLENPHQP 236
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 236 ASIQATDSQNTVHLVHALVMSDNSAENIALVTSMDGLLQAGARLCTPQLEDIRNLQDL 295
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Db 237 ASLEATDSLGNVTLVHALVMIADNSPENSALVIMYDGLLQMGARLCTPQLEISHNQGL 296
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QY 296 TPLKLAKEGKIEIFRHILQREFSG-LSHLRSKFTWCYGPVRVSYLDLASVDSCENSV 354
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 297 TPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTWCYGPVRVSYLDSSVDSWEKNSV 356
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 355 LEIIAFHCKSPHRRMVVLEPLNKLLOAKWDLLIPKFFLNLNLYMFITFAVAHQPT 414
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 357 LEIIAFHCKSPNRRMVVLEPLNKLLOEKWDRLVSRFFNFACVLYVMFTFTVAVHQPS 416
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 415 LKQOAPHLKAEVGNSSMLTGHILLGGIYLLVGQLWYFRRHVFITWISFIDSYEILF 474
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 417 LQOAPITVLSQVLRFMETEWYLPVLSVLVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 476
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 475 LFOALLTVWSQVLCFLAIEWYLPVLSVALVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 534
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Db 477 LQOALLTVLSQVLRFMETEWYLPVLSVLVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 536
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 535 LLRFLIYLVFLFGFAVALVSLSQEAWRPEAPTGPNNATESVQPMGQEDSGNGAQYRGIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 537 LLRFLIYLVFLFGFAVALVSLSREARSPKAPEDNNSVTVEQPTVGQEEB--PAPYRSIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 595 EASLELPKFTIGMGLAFQOLHFRGMVILLAYVLLTYVLLLNMLIALMSETVNSVAT 654
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Db 595 DASLELPKFTIGMGLAFQOLHFRGMVILLAYVLLTYVLLLNMLIALMSETVNSVAD 654
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QY 655 DSWSIWKLQKAIISVLEWENGYWMC-RKKORAGVMLTVGTPKDGSPDERWCFRVEEVNWA 713
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Db 655 NSWSIWKLQKAIISVLEWENGYWMCRRKKHREGLLKVGTRGDGTPDERWCFRVEEVNWA 714
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QY 714 WEOTLPTLCBPSGAGVPRTLNPVLASPPKDEDEGDGASEENYVPVQLQS 763
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 715 WEKTLPTLSDPSGPGITGNKNPT----SKPGKNSASEEDHLPQLVQLQS 760
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RESULT 6

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US-09-978-303-4
; Sequence 4, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
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; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 761
; TYPE: PRT
; ORGANISM: R. rattus
US-09-978-303-4
```

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Query Match          76.2%; Score 3051.5; DB 2; Length 761;
Best Local Similarity 77.7%; Pred. No. 3.4e-279;
Matches 598; Conservative 62; Mismatches 93; Indels 17; Gaps 7;

QY 1 MTSPPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKPAPQIRVNLNY 60
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Db 1 MTSASSPPAPRLTSDGDEGNAEVNKGQE----PPMESPPQREDRNSSPQIKVNLNF 56
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 ----RKGTGA-SQPDNRFRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSYEYEGST 115
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 IKRPPKNTSAPSQQEPRDRDRLEFVSVSRGVPPEUTGLLEYLRWNSKYLTDSAYTEGST 116
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QY 116 GKTCLMKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRS 175
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Db 117 GKTCLMKAVLNLDGYNACIMPLQLIDKDSGNPKPLVNAQCTDEFYQGHSAHIAIEKRS 176
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QY 176 LQCVKLLVNGANVHARACGRPFQKGQGTCTFYFGEPLSLAACTKWQDVVSYLLENPHQP 235
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Db 177 LQCVKLLVNGADVHLRACGRPFQKHQGTCTFYFGEPLSLAACTKWQDVVSYLLENPHQP 236
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QY 236 ASIQATDSQNTVHLVHALVMSDNSAENIALVTSMDGLLQAGARLCTPQLEDIRNLQDL 295
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 237 ASLEATDSLGNVTLVHALVMIADNSPENSALVIMYDGLLQMGARLCTPQLEISHNQGL 296
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 296 TPLKLAKEGKIEIFRHILQREFSG-LSHLRSKFTWCYGPVRVSYLDLASVDSCENSV 354
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 297 TPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTWCYGPVRVSYLDSSVDSWEKNSV 356
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 355 LEIIAFHCKSPHRRMVVLEPLNKLLOAKWDLLIPKFFLNLNLYMFITFAVAHQPT 414
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Db 357 LEIIAFHCKSPNRRMVVLEPLNKLLOEKWDRLVSRFFNFACVLYVMFTFTVAVHQPS 416
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 415 LKQOAPHLKAEVGNSSMLTGHILLGGIYLLVGQLWYFRRHVFITWISFIDSYEILF 474
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 417 LQOAPITVLSQVLRFMETEWYLPVLSVLVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 476
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 475 LFOALLTVWSQVLCFLAIEWYLPVLSVALVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 534
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 477 LQOALLTVLSQVLRFMETEWYLPVLSVLVGLWNLNLYYTRGFQHTGIYSVMIQKVLIRD 536
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QY 535 LLRFLIYLVFLFGFAVALVSLSQEAWRPEAPTGPNNATESVQPMGQEDSGNGAQYRGIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 537 LLRFLIYLVFLFGFAVALVSLSREARSPKAPEDNNSVTVEQPTVGQEEB--PAPYRSIL 594
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QY 595 EASLELPKFTIGMGLAFQOLHFRGMVILLAYVLLTYVLLLNMLIALMSETVNSVAT 654
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Db 595 DASLELPKFTIGMGLAFQOLHFRGMVILLAYVLLTYVLLLNMLIALMSETVNSVAD 654
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QY 655 DSWSIWKLQKAIISVLEWENGYWMC-RKKORAGVMLTVGTPKDGSPDERWCFRVEEVNWA 713
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 655 NSWSIWKLQKAIISVLEWENGYWMCRRKKHREGLLKVGTRGDGTPDERWCFRVEEVNWA 714
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QY 714 WEOTLPTLCBPSGAGVPRTLNPVLASPPKDEDEGDGASEENYVPVQLQS 763
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; LENGTH: 843
; TYPE: PRT
; ORGANISM: chicken
US-09-978-303-25

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Query Match	42.2%	Score 1689;	DB 2;	Length 843;
Best Local Similarity	47.2%	Pred. No. 2.6e-150;		
Matches 358;	Conservative 118;	Mismatches 218;	Indels 64;	Gaps 12;

Qy	4	PSSSPVRLETLDCGGQEGSEADRGKL----	DFSGSLPMMESQFOGEDRKFAPO--IRVNLN	59
Db	49	PSKSNIF-----ARRGRFVMGDCDKD	MAPMDSFYQ--MDHLMAPSVIKFHAN	93
Qy	60	YRKQ-----TCASOPDPNRFDRDLFNA	VSRGVPEDLAGLEPYLSKTSKYLTD	108
Db	94	MERGKHLKLLSTDITSITCGSEKAFKPY	DRRRIFDAVARGSTKDLDDLLYLNR	153
Qy	109	EYTEGSTGKTLKMAVLNLKDGVNACILP	LLQIDRDSGNPOPLVNAOCTDDDYR	168
Db	154	EFKEPETGKTCLLKAMNLHDGKNDTPI	LLDLIAKKTGTLKEFVNAEYTONYK	213
Qy	169	IATEKRSLOCYKLLVENGANVHARACGR	FOKGOG--TCFYFGEPLPLSLAACTK	227
Db	214	IATERRNMYLVKLLVQNGADVHARACGE	FFPKIKGKPGFYFGEPLPLSLAACT	273
Qy	228	LLENPHOPASLOATDSOGNTVLHALVMI	SDNSAENIALVTSWYDGLLQAGARLC	287
Db	274	LLENPYQADIAEDSGNWNVLHVLVEIA	ONTKNTFYVTQWYNNIILGAKINPI	333
Qy	288	DIRNLQDLPKLAKEGKIEIFRHILQRF	SG--LSHLRKRKFTWCYGPVRVSLY	345
Db	334	ELTNKKGLTPLTAAKTGKIGIFAYIL	LRREIKDPECRHLRKRKFTWAYGP	393
Qy	346	VDSCENSVLEIIATFHCKSPHRHMVLE	PINKLLOAKWDLIPK--FELNPLCN	404
Db	394	IDTCEKNSVLEIIAYSSSTNRHEMLVE	PLNRLQDKWDFVKHLEFVFVVAIH	453
Qy	405	FTAVAVHOPTLKKOAAAPH--LKAENV	SMWLTGHTIILGGIYLLVQGLWFW	463
Db	454	LTTAAYRYPVQGDKPPFAGHSTGETV	FRVTGEILSVLGGLYFFFRGIQYF	513
Qy	464	SFIDSPYEILFLFOALLTVVYSQVLC	FLAIEMWYPLLVLSALVGLWNLNLY	523
Db	514	LIVDSEYSEVFLFVHSHLLSSVLYIF	CGQELYASWVFSALGANWMLYTRG	573
Qy	524	SVMIQVILRDLRLFLIYLVIFGPVAL	VSLSQEAWRPEAPTGPNNATESVQ	583
Db	574	SVMIARWILRDLCRFMFVYLVFLIG	FSFSAVVTLIED-----DNEGDT	616
Qy	584	EGN-----GAQYRGILEASLELFET	TGMGELAQEQQLHFRGWLILLAV	632
Db	617	NSBEYARCSTHKGRRTSYNSLYYT	CYCLBELFPTIGMDLEFTENYRFS	676
Qy	633	TYILLNMLIALMSETVNSVATDSWS	TKWLQKAISVLEMENGYWC--RKQ	691
Db	677	TYILLNMLIALMGETVSKIAQESK	SLWKLQRPITILDIENSYLNC	736
Qy	692	TKPDGSDPEMCVTRVEEVNWSAQE	TLPTLCBPDPSGAG	729
Db	737	ITPDGQDDYRCVFRDVENNSTWNT	NLGINEDPGCSG	774

RESULT 11

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US-09-235-451-2
; Sequence 2, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Catrina, David J.
; APPLICANT: Catrina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP

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; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 838
; TYPE: prt
; ORGANISM: R. rattus
US-09-235-451-2

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Query Match	41.3%	Score 1652;	DB 2;	Length 838;
Best Local Similarity	46.3%;	Pred. No. 8e-147;		
Matches 359;	Conservative	127;	Mismatches 230;	Indels 60;
				Gaps 15;

QY	18	QBGDGEADRGKLD	FGSGJLPPMESQ	QFGEDR	KFAQ	IRVN---	LNTRKGTG	-----	65
Db	51	KGKDSSEAS-----	PLDCPYEBEGL	ASCP	IT	TVSSVL	TIORPGDGP	ASVRPSSQ	99
QY	66	----	ASQDPN	RDRDL	FN	ASVGR	VPED	L	AGI
Db	100	DSVSAGEKEP	RLYDR	RSIF	DA	VAQNC	QEBES	LLP	FLQ
QY	122	KAVLN	KDGV	NACIL	PL	LQID	RDS	GNP	QPL
Db	160	KAMLN	LHNG	QND	T	I	ALL	D	VARK
QY	182	LVENGAN	VIAR	ACGR	PFQ	KQGG-	TCY	FGEL	PL
Db	220	LVENGAD	VOAA	ANGD	PF	KTKR	PGFY	FGEL	PL
QY	241	TDSQGN	TVL	HAL	VM	ISDN	SAEN	I	AL
Db	280	RDSVGN	TVL	HAL	VE	ADNT	VD	N	TK
QY	301	AAKEG	KIE	FR	HI	LQEF-	-SGL	SH	LSR
Db	340	AASSG	KIG	V	L	Y	I	LQ	REI
QY	359	AF-HCK	SPH	R	M	V	LEP	N	KL
Db	400	AYSSST	PNR	H	D	M	L	VE	PL
QY	417	KQAAP-	-HLK	AE	V	SN	L	T	G
Db	458	-EGL	PPY	K	U	N	T	V	G
QY	475	LFOALL	TV	VS	Q	V	L	C	F
Db	517	FVQS	L	P	M	L	V	S	V
QY	535	LIRF	L	I	Y	L	V	F	L
Db	577	LCRF	M	F	V	L	V	L	F
QY	589	QYRG	I	L	E	A	S	L	E
Db	626	SYNS	L	S	T	C	E	L	F
QY	649	VNSV	A	T	D	S	W	S	I
Db	686	VNKI	A	E	S	K	N	I	K
QY	708	EYVN	A	S	W	E	O	T	L
Db	746	EYVNT	T	W	N	T	N	G	I

RESULT 12
US-09-132-316-3


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; Sequence 3, Application US/09132316B
; Patent No. 644440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus norvegicus
; US-09-132-316-3

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

QY 18 GQDGEADRGKLDGSGLPMPMESQFGEDRKPAPQIRVN---LNYRKGTG----- 65
Db 51 GKGDSEAS-----PLDCPYEGGLASCPITVSSVLTIQPGDGPASVRPSSQ 99
QY 66 ----ASQDPNDRDRDLFNVRGVPEDLAGLPEYLSKTSKYLTSEYTEGSGTKTCLM 121
Db 100 DSVSAGEKPPRLYDRRSIFDAVAQNCQELSLPFLQSKKRLTDFSEKDPETGKTCLL 159
QY 122 KAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYVYRHSALHIAIEKESLOCVKL 181
Db 160 KAMLNHNGQNDTIALLLDVARKTDSLQFVNASYTDSYKGTALHIAIERNNMTLVTL 219
QY 182 LVENGANVHARACGRPFQKQG--TCFYFGEPLPLSLAACTQKQMDVSVYLLNPHQPASLOA 240
Db 220 LVENGADVQAAANGDFPKTKGRPGFYFGEPLPLSLAACTNQLAIVKFLQNSQPADISA 279
QY 241 TDSQGNVTLHALVMSIDNSAENALVTSYDGLLQAGARLCPTVQLEDINLQDLTPLKL 300
Db 280 RDSVGNVTLHALVEVADNTVDNTKFVTSMYNEILILGAKLHPTLKEEITNRKGLTPLAL 339
QY 301 AAKEGKIEIFRHILOREF--SGLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEII 358
Db 340 AASSGKIGVLAYILOREIHEPECRHLSRKFTWAYGPFVHSSLYDLSCIDTCEKNSVLEVI 399
QY 359 AF-HCKSPHRRMVLEPLNKLQAKWDLIPK--FFLNFLCNLIYMFIFTAVAYHOPTLK 416
Db 400 AYSSSTPNRHDMLLVEPLNRLLODKWDRFVKRIFEFNFVYCLYMIPTAAAYRPV-- 457
QY 417 KQAAP--HLKAEVGNMMLTGHILILGGIYLVGQLWYFWRHVFIMWISFIDSYFEILF 474
Db 458 -EGLPPYKLNVTGDFYRVTGEBILSVSGGYFFFRGFIQYLRPPSLKSLFVDSYSEILF 516
QY 475 LFQALLTVSVOVLCFLAIEWLPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
Db 517 FVQSLFVLSVVLVYFSQRYKYSVSWFSLANGTNMLYYTRGFQQGGIYAVMIERMLRD 576
QY 535 LLRFLIYLVFLGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGA----- 588
Db 577 LCRFMFVYLVFLGFSFVAVVTIED-----GKN---NSLPWESTPHKCRGSACKPGN 625
QY 589 QYRGILEASLELEKFTIGMELAFQEQHPRGMVLLLLLAYVLLTYILLNMLIALMSET 648
Db 626 SYNSLSTCLELKFKFTIGMDLEFTENYDPKAVFIILLAYVLLTYILLNMLIALMGET 685
QY 649 VNSVATDSIWKLOKAIISVLEMGYVWC--RKORAGVMLTVGTGDPGSPDERWCPRVE 707
Db 686 VNKIAQESKNIWKLOQRAITILDTEKSPKCNKRAFRSGKQLQVGFPPDGKDDIRWCFRVD 745
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QY 708 EVNWASWEOTLPTLCEPDSGA-GVPRTLNPNVLASPPKEDDEGCASBNYVPVOLLQ 762
Db 746 EVNWTTWNTNVGIINEDPCNCEGVKRTLSFSLRSR---RVSGRNWKNFALVPLLR 797

RESULT 13
US-09-667-422-9
; Sequence 9, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 9
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus sp.
; PUBLICATION INFORMATION:
; AUTHORS: Caterina, Michael J.
; AUTHORS: Schumacher, Mark A.
; AUTHORS: Tomimaga, Makoto
; AUTHORS: Rosen, Tobias A.
; TITLE: The capsaicin receptor: a heat-activated ion channel in
; TITLE: the pain pathway
; JOURNAL: Nature
; VOLUME: 389
; PAGES: 816-824
; DATE: 1997
; US-09-667-422-9

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

QY 18 GQDGEADRGKLDGSGLPMPMESQFGEDRKPAPQIRVN---LNYRKGTG----- 65
Db 51 GKGDSEAS-----PLDCPYEGGLASCPITVSSVLTIQPGDGPASVRPSSQ 99
QY 66 ----ASQDPNDRDRDLFNVRGVPEDLAGLPEYLSKTSKYLTSEYTEGSGTKTCLM 121
Db 100 DSVSAGEKPPRLYDRRSIFDAVAQNCQELSLPFLQSKKRLTDFSEKDPETGKTCLL 159
QY 122 KAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYVYRHSALHIAIEKESLOCVKL 181
Db 160 KAMLNHNGQNDTIALLLDVARKTDSLQFVNASYTDSYKGTALHIAIERNNMTLVTL 219
QY 182 LVENGANVHARACGRPFQKQG--TCFYFGEPLPLSLAACTQKQMDVSVYLLNPHQPASLOA 240
Db 220 LVENGADVQAAANGDFPKTKGRPGFYFGEPLPLSLAACTNQLAIVKFLQNSQPADISA 279
QY 241 TDSQGNVTLHALVMSIDNSAENALVTSYDGLLQAGARLCPTVQLEDINLQDLTPLKL 300
Db 280 RDSVGNVTLHALVEVADNTVDNTKFVTSMYNEILILGAKLHPTLKEEITNRKGLTPLAL 339
QY 301 AAKEGKIEIFRHILOREF--SGLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEII 358
Db 340 AASSGKIGVLAYILOREIHEPECRHLSRKFTWAYGPFVHSSLYDLSCIDTCEKNSVLEVI 399
QY 359 AF-HCKSPHRRMVLEPLNKLQAKWDLIPK--FFLNFLCNLIYMFIFTAVAYHOPTLK 416
Db 400 AYSSSTPNRHDMLLVEPLNRLLODKWDRFVKRIFEFNFVYCLYMIPTAAAYRPV-- 457
QY 417 KQAAP--HLKAEVGNMMLTGHILILGGIYLVGQLWYFWRHVFIMWISFIDSYFEILF 474
Db 458 -EGLPPYKLNVTGDFYRVTGEBILSVSGGYFFFRGFIQYLRPPSLKSLFVDSYSEILF 516
QY 475 LFQALLTVSVOVLCFLAIEWLPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
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Db 517 FVQSLFMLVSVLVYFSQKVEYVASMVSLFSLAMGWTNMLYYTRGFQOMGIYAVMIKMLRD 576
 Qy 535 LLRELLIYLVFLFGFAVALVLSQEAWRPEAPTGNATESVQPMQGEDEGNGA----- 588
 Db 577 LCRPMFVYLVFLFGFSTAVVTLIED-----GKN---NSLPWSTPHKCRGSACKPGN 625
 Qy 589 QYRGILEASLELPKFTTGMGELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALMSET 648
 Db 626 SYNSLYSTCLELPKFTTGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGET 685
 Qy 649 VNSVATDSWSIKWLOKAIISVLEMGYWC-RKKORAGVMTVCTKPDGSDERWCPRVE 707
 Db 686 VNKIAQESKNIWKLOQRAITILDTEKSLKCMKRAFRSGKLLQVGFDPGKDDYRWCPDVD 745
 Qy 708 EVNWSAEQTLPTLCEDPSGA-GVPRILENVLASPPKEDBDGASEENYVPVQLLQ 762
 Db 746 EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG-----RVSGRNWKNFALVPLLR 797

RESULT 14
 US-09-978-303-2
 ; Sequence 2, Application US/09978303
 ; Patent No. 6790629
 ; GENERAL INFORMATION:
 ; APPLICANT: Julius, David J.
 ; APPLICANT: Caterina, Michael J.
 ; APPLICANT: Brake, Anthony J.
 ; TITLE OF INVENTION: Nucleic acid sequences encoding
 ; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
 ; TITLE OF INVENTION: polypeptides and uses thereof
 ; FILE REFERENCE: UCAL084CON
 ; CURRENT APPLICATION NUMBER: US/09/978,303
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 09/235,451
 ; PRIOR FILING DATE: 1999-01-22
 ; PRIOR APPLICATION NUMBER: 60/072,151
 ; PRIOR FILING DATE: 1998-01-22
 ; PRIOR APPLICATION NUMBER: 08/915,461
 ; PRIOR FILING DATE: 1997-08-20
 ; NUMBER OF SEQ ID NOS: 48
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 838
 ; TYPE: PRT
 ; ORGANISM: R. rattus
 US-09-978-303-2

Query Match 41.3%; Score 1652; DB 2; Length 838;
 Best Local Similarity 46.3%; Pred. No. 8e-147;
 Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

Qy 18 GQDGSSEADRGKLDGSGLPMPESQFQGEDRKPAQIRVN---LNYRKGTVG----- 65
 Db 51 KGGDSEAS-----PLDCPYEEGLASCPIITVSSVLTQRPDGPASVRPSSQ 99
 Qy 66 ----ASQPDNRRDRDLFNAVSRGVDPEDLAGLPEYLSKTSKYLTDSYTEGSGTKCLM 121
 Db 100 DSVSAGEKPRLYDRSIFDVAQSNQOELESLLPFLQSKRLTDSFQDPETGKTCLL 159
 Qy 122 KAVLNKDGYNACILPLQLQIDRSGNPQPLVNAQCTDDYYRGHSALHIAIEKSLQCVKL 181
 Db 160 KAMNLHNGQNDTIALLLDVARKTSLQKQFNASYTDSYKGGTALHIAIERNNMTLVTL 219
 Qy 182 LVENGANVHARACGRPFQKQGG-TCFYFGLPLSLAACTQWDVSVVLENPHQPASLOA 240
 Db 220 LVENGADVQAANGDFPKTKGRPGFYFGLPLSLAACTNQLAIVKFLQNSWQPADISA 279
 Qy 241 TDSQNTVLHALVMSIDNSAENTALTSMYDGLLOAGARLCPVTOLEDIRNLQDTPKL 300
 Db 280 RDSVGNVTLHALVEADVNTDNTKFTVSMYNEILILGAKHLPTKLEIETNRKGLTPAL 339
 Qy 301 AAKEGKIEIPFHILQREF--SGLSHLRKFTEWCGPVRVSVLYDLASVDSCEBNSVLEII 358

Db 340 AASGKIGLVAYLQRIHEPECHRLSRKFTWAGYVPHSSLYDLSCIDTCERKNSVLEVI 399
 Qy 359 AF-HCKSPHRRMVVLEPLNKLQAKWDLIPK--FFLNFLCNLYMTFTTAVAYHPTLK 416
 Db 400 AYSSETPNRHDMMLVLEPLNKLQAKWDRFVKRIFYFNFFVYCLMIIFTAAAYRPV-- 457
 Qy 417 QKAAP--HLKAFVNSMLLTGHILILGGLYLLVQOLWYFRRHVFVWISFIDSYFELF 474
 Db 458 -EGLPPYKLVNTVDYFRVTGEILSVSGGVYFFPRGFIQYFLQRRPSLSKSLFVDSYSELF 516
 Qy 475 LFQALLTVVSVQVLCFLAIEWVPLLVLSALVGLWNLNLYTRGFQHTGYISYMIQVILRD 534
 Db 517 FVQSLFMLVSVLVYFSQKVEYVASMVSLFSLAMGWTNMLYYTRGFQOMGIYAVMIKMLRD 576
 Qy 535 LLRELLIYLVFLFGFAVALVLSQEAWRPEAPTGNATESVQPMQGEDEGNGA----- 588
 Db 577 LCRPMFVYLVFLFGFSTAVVTLIED-----GKN---NSLPWSTPHKCRGSACKPGN 625
 Qy 589 QYRGILEASLELPKFTTGMGELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALMSET 648
 Db 626 SYNSLYSTCLELPKFTTGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGET 685
 Qy 649 VNSVATDSWSIKWLOKAIISVLEMGYWC-RKKORAGVMTVCTKPDGSDERWCPRVE 707
 Db 686 VNKIAQESKNIWKLOQRAITILDTEKSLKCMKRAFRSGKLLQVGFDPGKDDYRWCPDVD 745
 Qy 708 EVNWSAEQTLPTLCEDPSGA-GVPRILENVLASPPKEDBDGASEENYVPVQLLQ 762
 Db 746 EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG-----RVSGRNWKNFALVPLLR 797

RESULT 15
 US-10-246-435-9
 ; Sequence 9, Application US/10246435
 ; Patent No. 6867009
 ; GENERAL INFORMATION:
 ; APPLICANT: Cortright, Daniel
 ; APPLICANT: Krause, James
 ; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
 ; FILE REFERENCE: HCR
 ; CURRENT APPLICATION NUMBER: US/10/246,435
 ; CURRENT FILING DATE: 2002-09-18
 ; PRIOR APPLICATION NUMBER: US/09/667,422
 ; PRIOR FILING DATE: 2001-06-07
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 9
 ; LENGTH: 838
 ; TYPE: PRT
 ; ORGANISM: Rattus sp.
 ; PUBLICATION INFORMATION:
 ; AUTHORS: Caterina, Michael J.
 ; AUTHORS: Schumacher, Mark A.
 ; AUTHORS: Tominaga, Makoto
 ; AUTHORS: Rosen, Tobias A.
 ; TITLE: The capsaicin receptor: a heat-activated ion channel in
 ; TITLE: the pain pathway
 ; JOURNAL: Nature
 ; VOLUME: 389
 ; PAGES: 816-824
 ; DATE: 1997
 US-10-246-435-9

Query Match 41.3%; Score 1652; DB 2; Length 838;
 Best Local Similarity 46.3%; Pred. No. 8e-147;
 Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

Qy 18 GQDGSSEADRGKLDGSGLPMPESQFQGEDRKPAQIRVN---LNYRKGTVG----- 65
 Db 51 KGGDSEAS-----PLDCPYEEGLASCPIITVSSVLTQRPDGPASVRPSSQ 99
 Qy 66 ----ASQPDNRRDRDLFNAVSRGVDPEDLAGLPEYLSKTSKYLTDSYTEGSGTKCLM 121

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Db      100  DSVSAGEKPRLYDRRSIFDAVAQSNQBELESLLPFLQSRKKRLTDSBPKDPETGKTCLL 159
Qy      122  KAVLNLDGYNACILPLLQIDRDSGNPQPLVNAQCTDDYVRGHSALHIAIEKRSLOCVKL 181
Db      160  KAMNLHNGQNDTIALLLDVARTDSLKQFVNASYTDSYKGTQALHIAIERNMVLVTL 219
Qy      182  LVENGANVHARACGRFFQKQG--TCFYGELPLSLAACTKQMDVVSYLENPHQPASLOA 240
Db      220  LVENGADVQAAANGDFKTKGRPGFYFGELPLSLAACTNQLAIVKFLQNSWQPADISA 279
Qy      241  TDSQGNVLHALVIMSDNAENIALVTSMDGLLOAGARLCPTVOLEDIENLODLTPLKL 300
Db      280  RDSVGNVLHALVEVADNTVDTKFTVSMYNEILILGAKLHPTLKLEETNRKGLTPLAL 339
Qy      301  AAKEGKIEIFRHTLOREF--SGLSHLSRKFTCYGVRVSLYDLASVDSCEENSVELEII 358
Db      340  MASSGKLGVLAYILQREIHEPECHLSRKFTWAYGFVHSSLYDLSCIDTCEKNSVLEVI 399
Qy      359  AF-HCKSPHRRMVLPLNKLQAKWDLIPK--FFLNFLCNLIYMFIFTAVAYHOPTLK 416
Db      400  AVSSSETPNRHDMLLVEPLNRLQDKWDRFVKRIFYFNFVYCLYMIIFTAAAYRPV-- 457
Qy      417  KQAP--HLKAEVCNMLTGHILILLGGIYLLVQOLWYFWRHVFVWISFIDSYPEILF 474
Db      458  -EGLPPYKLNVTGDFRVVTGEILSVSGGVYFFFRGIQYFLORRPSLSLFDVDSYSEILF 516
Qy      475  LFOALLTVVSQVLCFLAIEWLPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
Db      517  FVOSLPMVSVVLYFSQRKEYVASMVPSLAWGWTNMLYTRGFQOMGIYAVMIEKMLRD 576
Qy      535  LARPLIYLVFLFGFAVALVLSQEAWRPEAPTGPNATESVQPMEGQDEGNGA----- 588
Db      577  LCRFMYVLVFLFGFSTAVVTLIED-----GKN---NSLPMESTPHKCRGSACKPGN 625
Qy      589  QYRGILEASLELKFKTIGMGLAFQOLHFRGMVLLLLAYVLLTYILLINMLIALMSET 648
Db      626  SYNSLYSTCLELFPKFTIGMGLDFTENYDFKAVFIILLAYVILTYILLINMLIALMGET 685
Qy      649  VNSVATDSWSIWKLQKAIISVLEMGVWMC-RKKORAGVMLTVGTPDGSPDERMCFRVE 707
Db      686  VNKIAQESKNWKLQRAITILDTEKSFCKMRKAFRSGKLLQVGFTPDGKDDYRWCFRVD 745
Qy      708  EVNWASWEQTLPTLCEDPSGA-CVPRLENPVLPASPPKEDGDGASEENYVPVOLLQ 762
Db      746  EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG---RVSGRNWKNFALVPLLR 797

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Search completed: February 18, 2006, 03:37:16
Job time : 54 secs